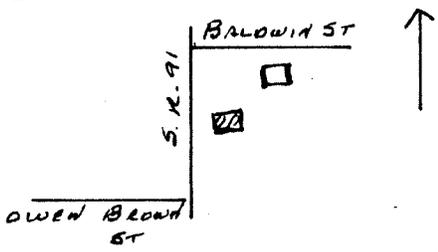


# OHIO HISTORIC INVENTORY

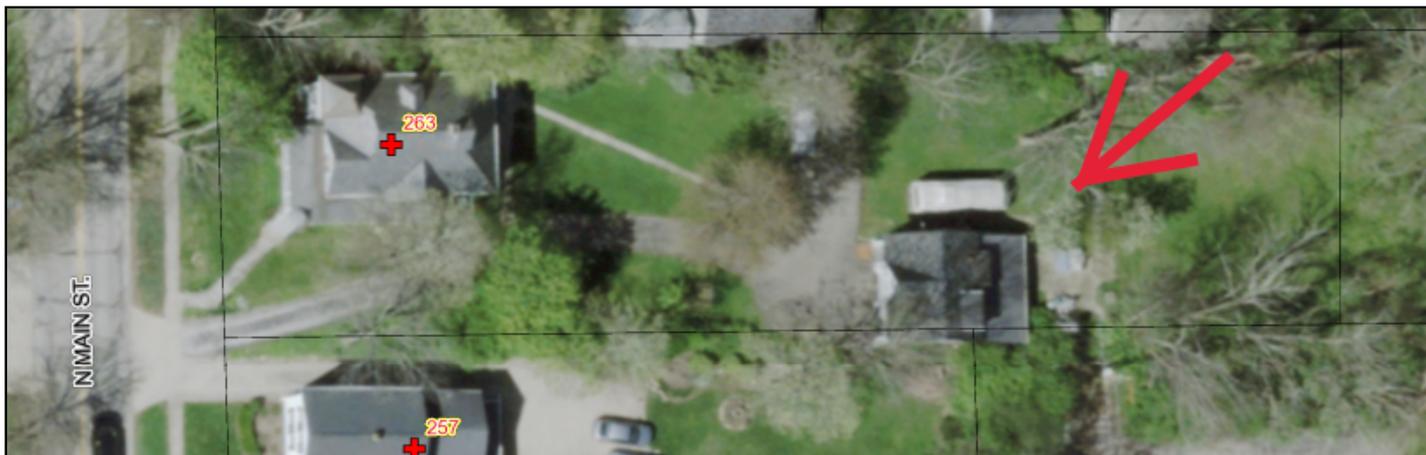
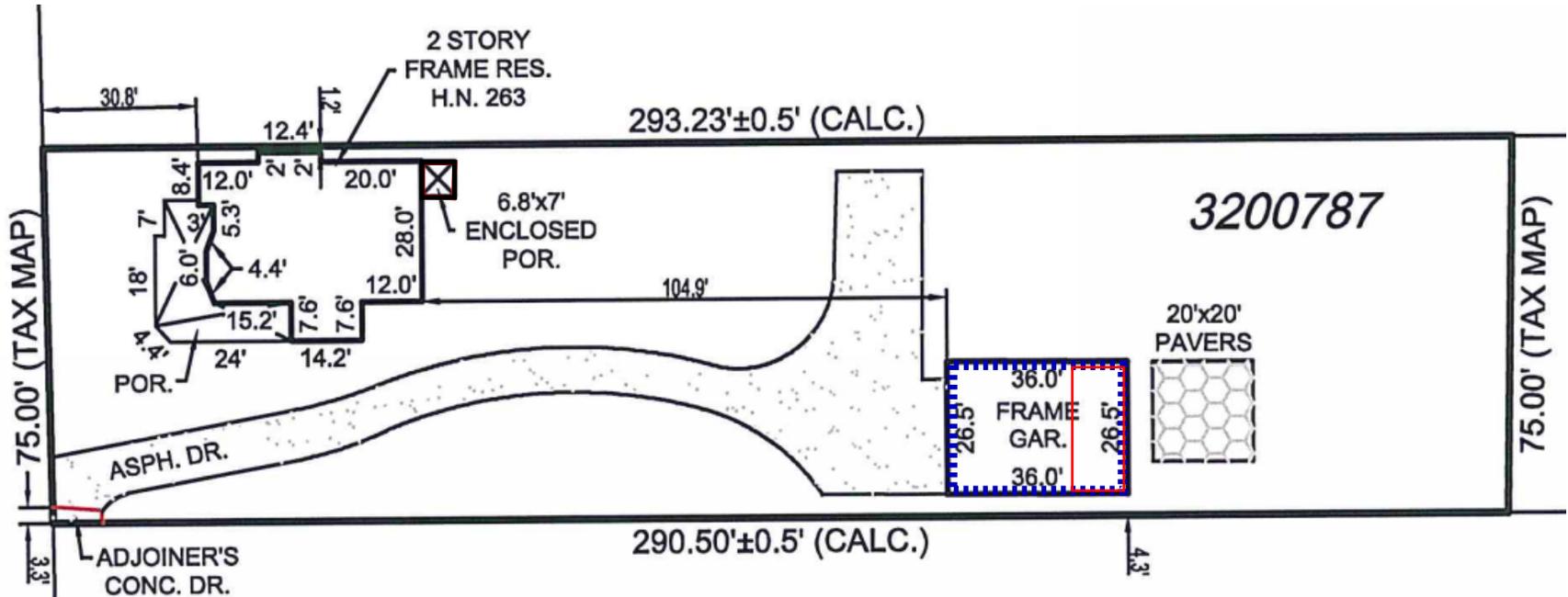
Ohio Historic Preservation Office  
Ohio Historical Center  
Columbus, Ohio 43211

1. No.		4. Present Name(s) Residence, James Hill	
2. County Summit		5. Other Name(s)	
3. Location of Negatives HHA 45-21; 48-10			
6. Specific Location  263 North Main Street		16. Thematic Category C	28. No. of Stories 2½
7. City or Town If Rural, Township & Vicinity Hudson		17. Date(s) or Period c. 1893	29. Basement? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
8. Site Plan with North Arrow 		18. Style or Design Queen Anne	30. Foundation Material sandstone/concrete blk
9. Coordinates Lat. _____ Long. _____ U.T.M. Reference 17 463 122 452 57 25		19. Architect or Engineer	31. Wall Construction wood frame
10. Site <input type="checkbox"/> Structure <input type="checkbox"/> Building <input checked="" type="checkbox"/> Object <input type="checkbox"/>		20. Contractor or Builder	32. Roof Type & Material hipped - slate
11. National Register? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		21. Original Use, if apparent residence	33. No. of Bays Front 5 Side 4
12. Is It Eligible? Yes <input type="checkbox"/> No <input type="checkbox"/>		22. Present Use residence	34. Wall Treatment beveled siding
13. Part of Estab. Yes <input checked="" type="checkbox"/> Hist. Dist.? No <input type="checkbox"/>		23. Ownership Public <input type="checkbox"/> Private <input checked="" type="checkbox"/>	35. Plan Shape rect
14. District Yes <input type="checkbox"/> Potent'l? No <input type="checkbox"/>		24. Owner's Name & Address, if known James Hill 263 North Main Street Hudson, Ohio 44236	36. Changes Addition <input type="checkbox"/> (Explain in #42) Altered <input type="checkbox"/> Moved <input type="checkbox"/>
15. Name of Established District Hudson Historic District		25. Open to Public? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	37. Condition Interior _____ Exterior good
16. Further Description of Important Features Hipped roof, lower cross gables; center chimney; gabled dormer at roof peak with two small windows; Front facade full height tower with conical roof; wraparound porch, with turret, gable, round pillar supports; spindlework balustrade; patterned siding; plain windows.		26. Local Contact Person or Organization Hudson Heritage Association	38. Preservation Underway? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
*endangered by proposed widening of S. R. 91 through center of village.		27. Other Surveys in Which Included	39. Endangered? By What? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
43. History and Significance Built by Henry Wehner, early Hudson merchant, Wehner and Marrott, Dry Goods.		40. Visible from Public Road? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	41. Distance from and Frontage on Road 20' 75'
44. Description of Environment and Outbuildings Old barn, used as garage, gable roof with centered gable; diamond shaped windows in gables, flush siding, brick faced foundation, windows added. Residential area, heavy traffic.		Photo	
Sources of Information Summit County Tax Assessment records Personal inspection		48. Prepared by L Newkirk, F Barlow	
		47. Organization HHA	
		48. Date   49. Revision Date(s)	

Summit  
Residence, James Hill

Scope of work:

- Rebuild rear garage shop
- Add dormer on rear elevation
- Standing seam metal roof
- Replace garage door









### Siding application checklist

- Current siding material: Natural Wood
- New siding material: \_\_\_\_\_
- Circle: *Removing current siding or going over* (if going over, note the reveal dimensions): \_\_\_\_\_
- Width of existing siding: \_\_\_\_\_
- Width of new siding: \_\_\_\_\_
- Style of new siding (e.g. Dutch lap, clapboard, etc.):  
\_\_\_\_\_
- If altering or replacing window and garage trim, please detail:  
Details to match existing using painted composite materials
- Proposed cornerboard width: No change from existing
- Circle: *Reset or replace* gable vents or N/A
- Circle: *Reset or replace* shutters or *N/A* (if replacing shutters provide a spec sheet with style and dimensions)  
Removing shutters on side of building
- **PHOTOGRAPHS of the property – FULL VIEW** of all four sides of the house

Siding size and lap to match existing. On Garage keeping existing siding, shed on back we are replacing with siding to match existing lap and profile

### HOUSE PHOTO EXAMPLES:



### Window application checklist

- New window material:  
Windsor wood window, same as what is used on the home
- Existing window material:  
Wood
- Indicate any windows that will not fit in existing spaces and how patching will be addressed
- Indicate if window trim will be altered or wrapped  
 Those that are altered will match the profile and detail of the existing using composite material
- Measurement sheet: Dimension and grid pattern of each window being replaced

### MEASURE SHEET EXAMPLE:

WINDOW MEASURE SHEET							
Window #	Width	Height	Window Type	Frame Material	Top sash grid pattern	Bottom sash grid pattern	Notes
1	28"	40"	Single hung	Wood	1V2H	1V2H	
2	28"	40"	Single hung	Wood	1V2H	1V2H	
3	28"	40"	Single hung	Wood	1V2H	1V2H	
4	28"	40"	Single hung	Wood	1V2H	1V2H	

On the **PHOTOGRAPHS** of the property:

- **FULL VIEW** of all four sides of the house
- Circle the windows that are being replaced and number with the corresponding *measure sheet*

### PHOTO EXAMPLES:









1



3



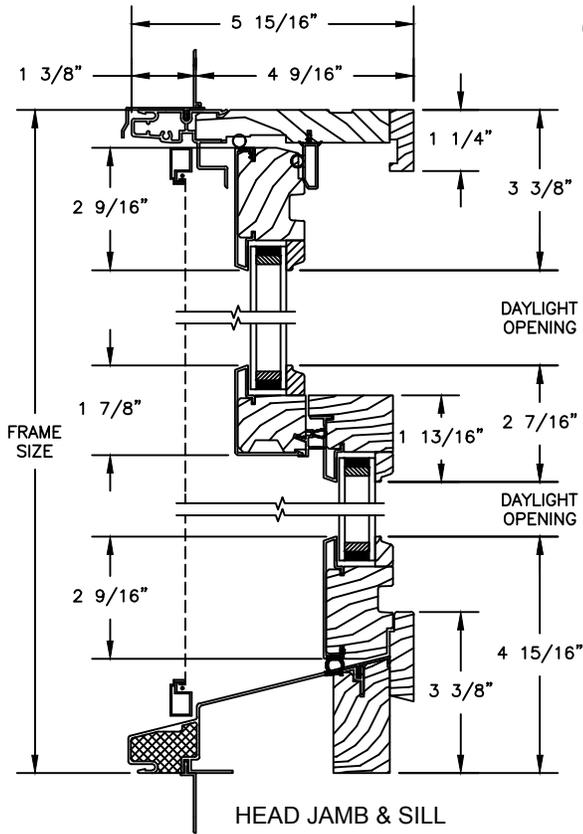
2



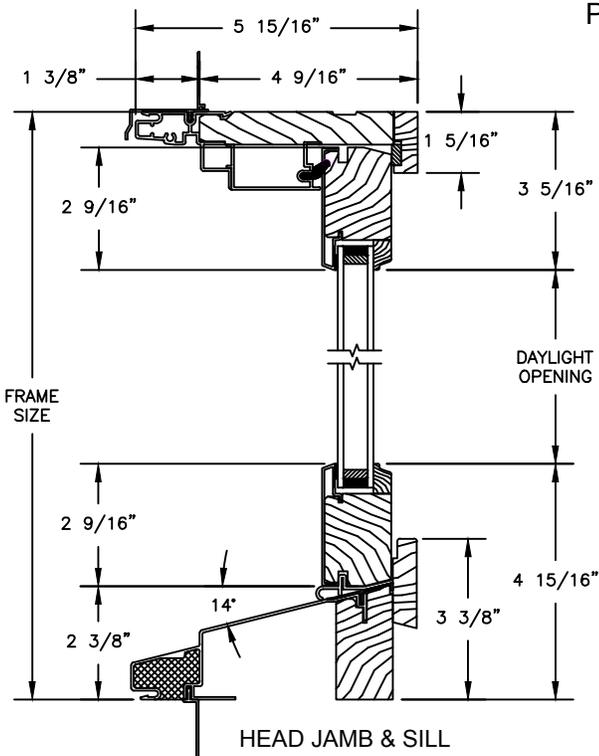
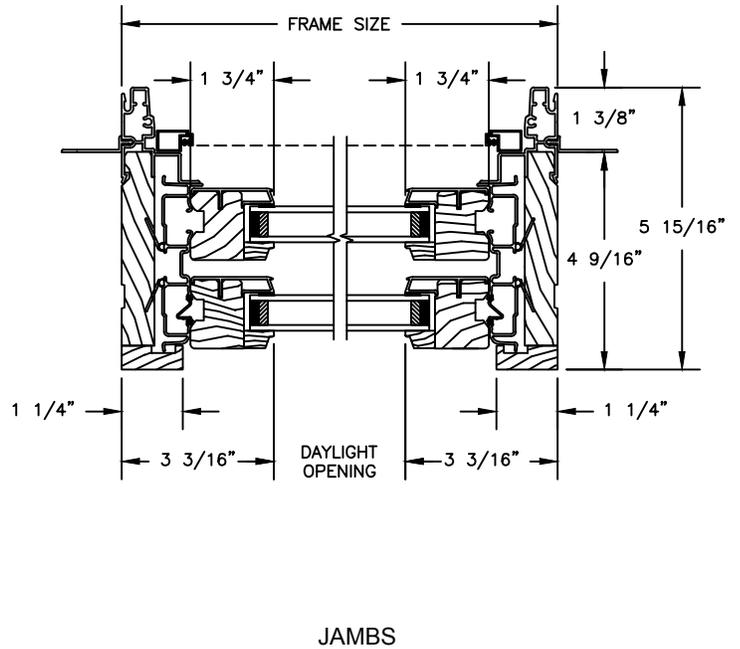
# Pinnacle Series

## CLAD DOUBLE HUNG

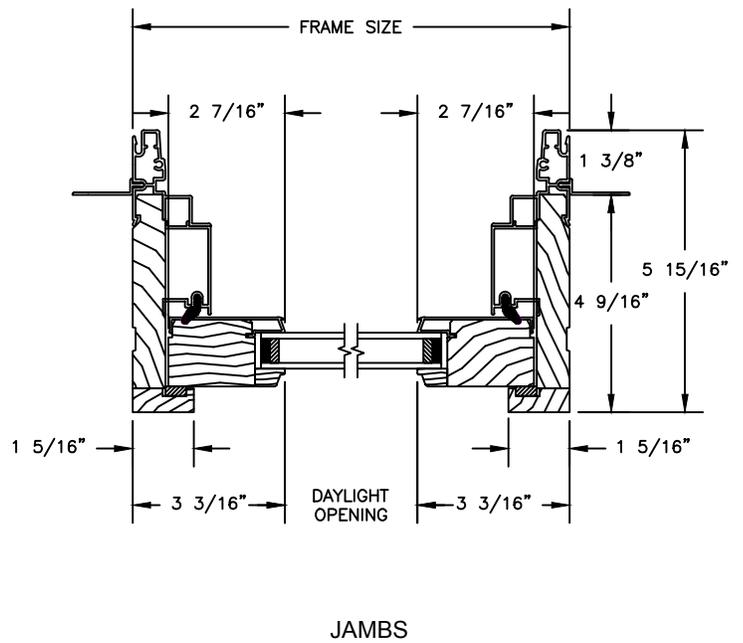
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 SCALE: 3" = 1'-0"



OPERATING



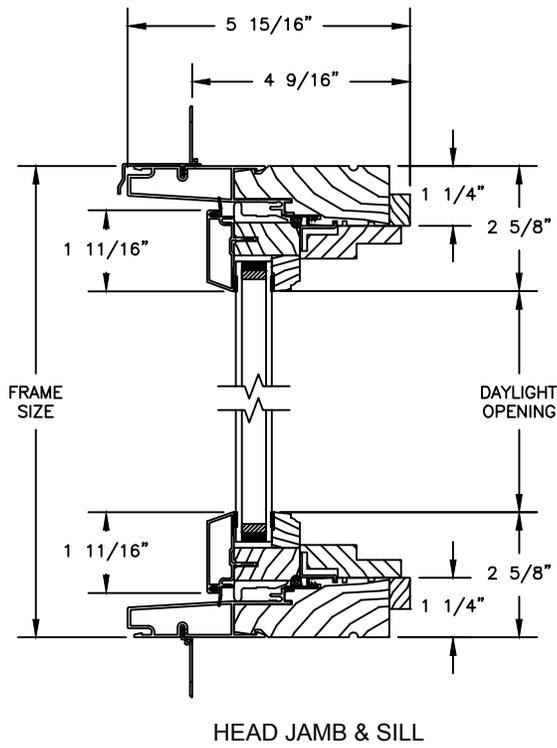
PICTURE



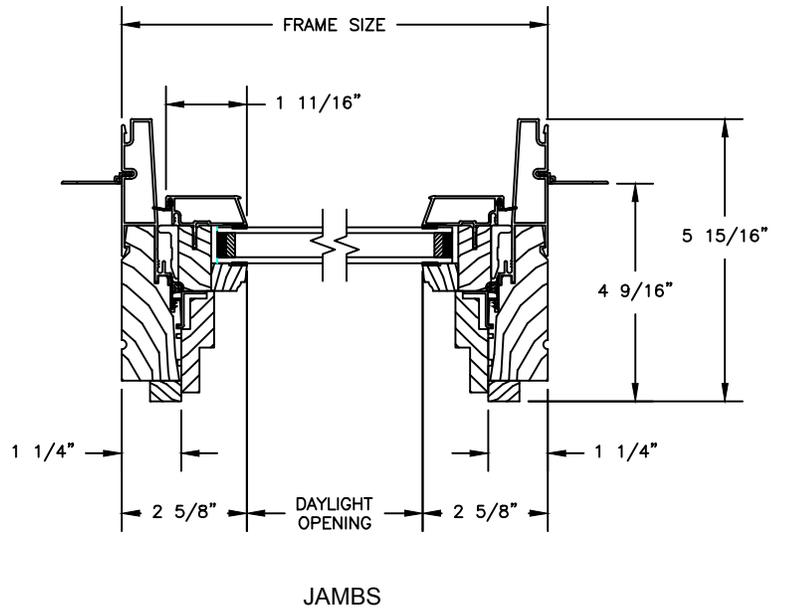
# Pinnacle Series

## CLAD DOUBLE HUNG

SECTION DETAILS : TRANSOM  
SCALE: 3" = 1'-0"



### TRANSOM

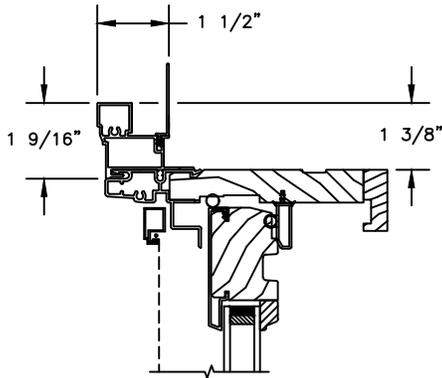


# Pinnacle Series

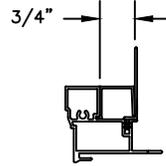
## CLAD DOUBLE HUNG

### SECTION DETAILS : CASING OPTIONS

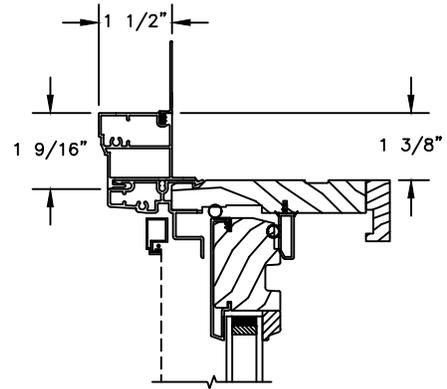
SCALE: 3" = 1'-0"



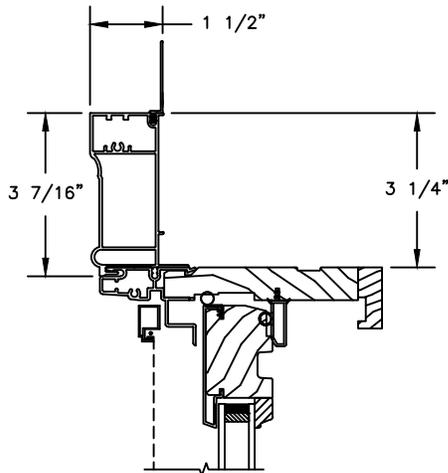
HEAD JAMB WITH  
CLAD 180 BRICKMOULD CASING



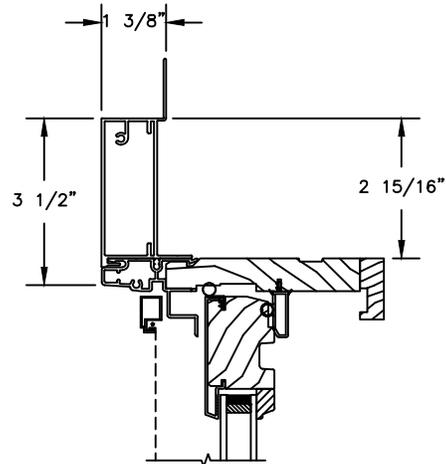
CLAD BRICKMOULD CASING  
WITH OPTIONAL J-CHANNEL COVER



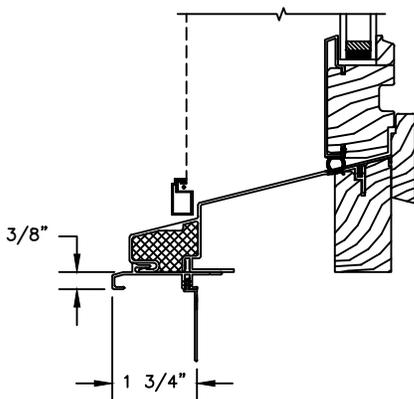
HEAD JAMB WITH  
CLAD SQUARE BRICKMOULD CASING



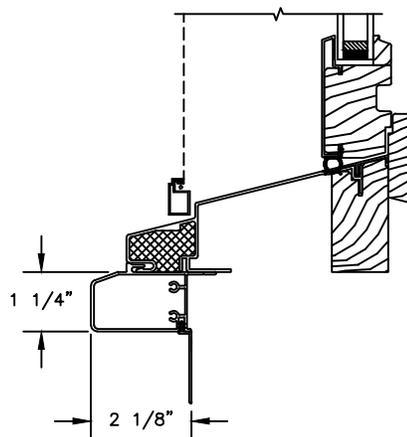
HEAD JAMB WITH  
CLAD WILLIAMSBURG CASING



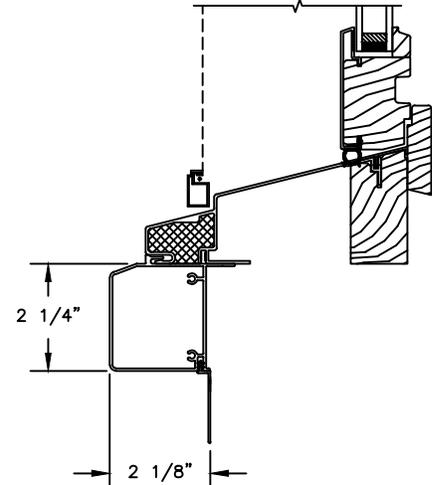
HEAD JAMB WITH  
3 1/2" CLAD FLAT CASING



SILL WITH  
3/8" CLAD SUBSILL



SILL WITH  
1 1/4" CLAD SUBSILL

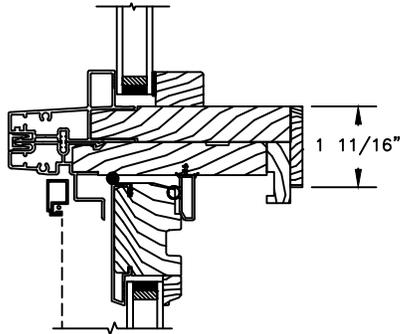


SILL WITH  
2 1/4" CLAD SUBSILL

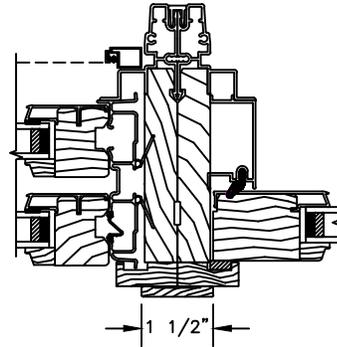
# Pinnacle Series

## CLAD DOUBLE HUNG

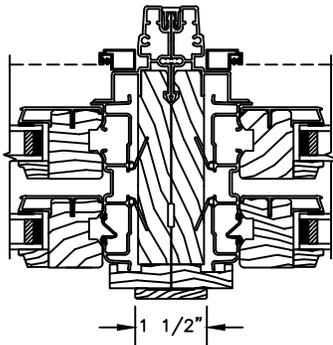
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 SCALE: 3" = 1'-0"



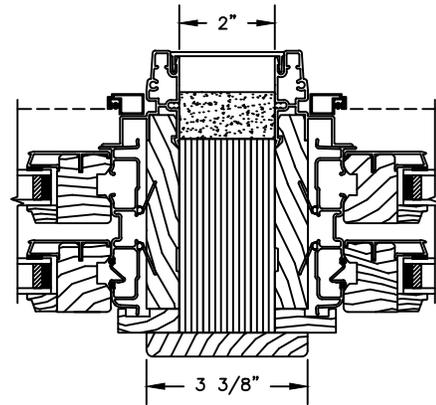
HORIZONTAL MULLION  
 RADIUS/OPERATOR



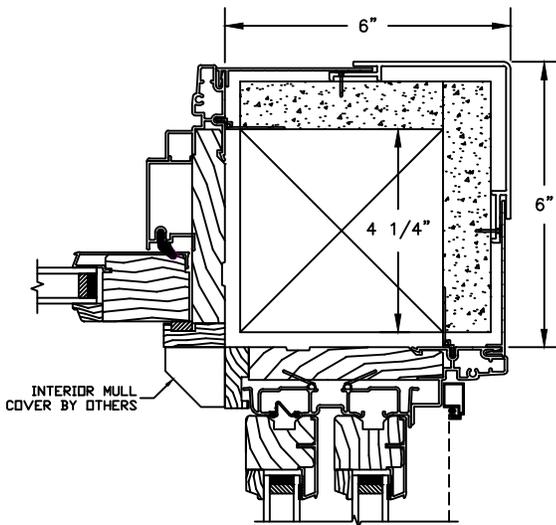
VERTICAL MULLION  
 OPERATOR/PICTURE



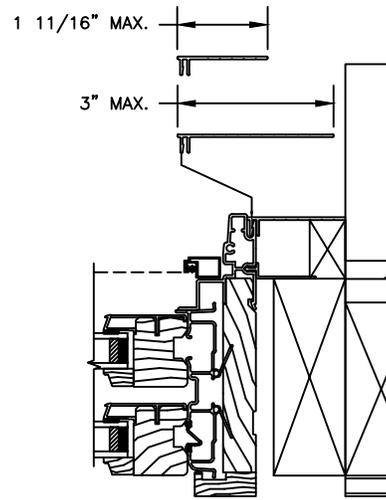
VERTICAL MULLION  
 OPERATOR/OPERATOR



VERTICAL MULLION WITH  
 2" SPREAD MULL  
 ADDITIONAL WIDTHS INCLUDE:  
 1", 2", 2 1/2", 3", & 4"



90° MULLION  
 PICTURE/OPERATOR  
 (ONLY USED WITH 4 9/16" JAMB & 3 1/4"  
 FRAME EXPANDER)



NOTE:  
 FOR INFORMATION ON STRUCTURAL MULLIONS REFER TO  
 THE PRODUCT PERFORMANCE AND INFORMATION SECTION.

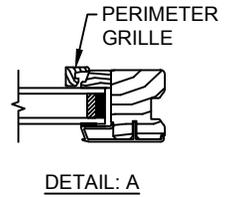
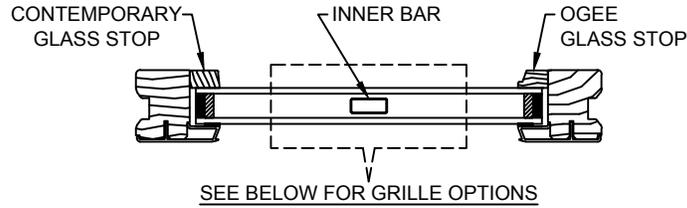
# Pinnacle Series

## CLAD DOUBLE HUNG

SECTION DETAILS : DIVIDED LITE OPTIONS  
 SCALE: 3" = 1'-0"

AVAILABLE STYLES

-  - PUTTY
-  - OGEE
-  - CONTEMPORARY



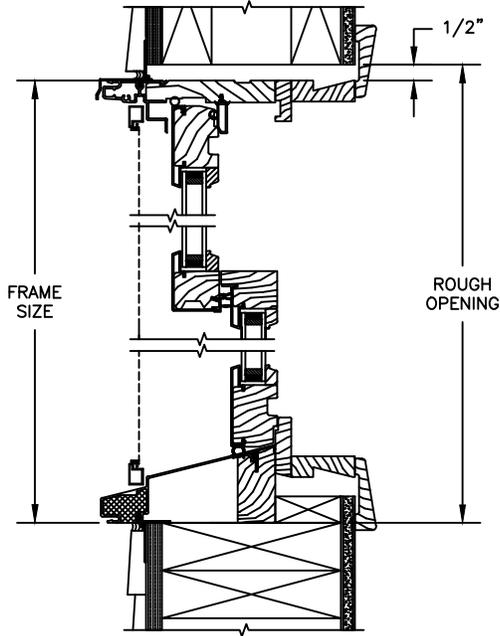
	5/8" WDL WITH INNER BAR	7/8" WDL WITH INNERBAR	1 1/4" WDL WITH INNERBAR	2" WDL WITH INNERBAR
STANDARD INSULATING GLASS				
13/16" INNERGRILLE				
3/4" PROFILED INNERGRILLE				
1" PROFILED INNERGRILLE				
7/8" STICK GRILLE				
1 1/4" STICK GRILLE				

NOTE:  
 \* ALL WDL OPTIONS CAN BE ORDERED WITH OR WITHOUT INNER BAR  
 \* PERIMETER GRILLES ONLY AVAILABLE IN THE 7/8" AND 1 1/4" OGEE STYLE GLASS STOP (SEE DETAIL: A)

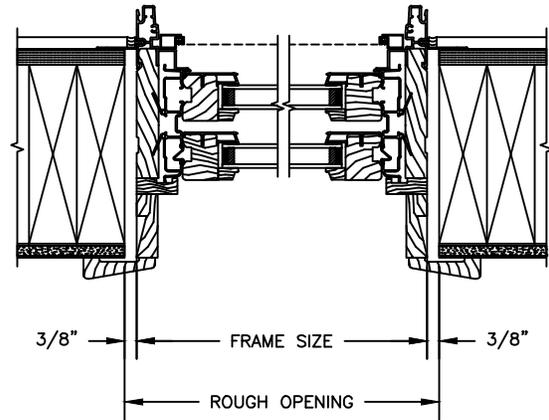
# Pinnacle Series

## CLAD DOUBLE HUNG

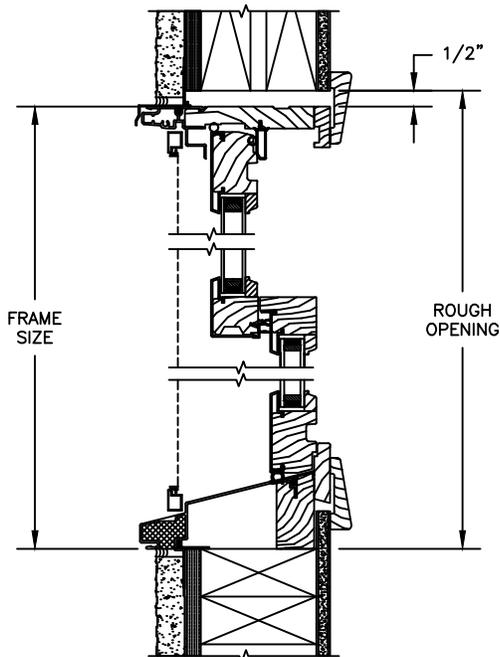
SECTION DETAILS : CONSTRUCTION  
 SCALE: 2" = 1'-0"



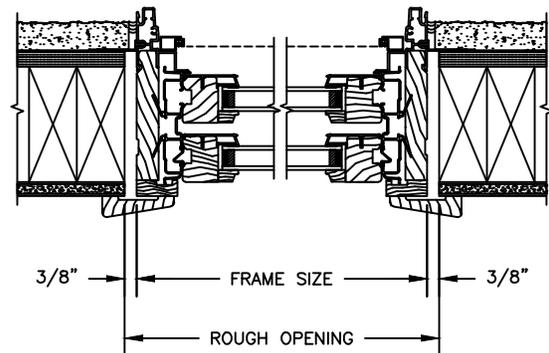
HEAD JAMB & SILL  
 2 X 6 FRAME WITH SIDING



HEAD JAMB & SILL  
 2 X 6 FRAME WITH SIDING



HEAD JAMB & SILL  
 2 X 4 FRAME WITH STUCCO



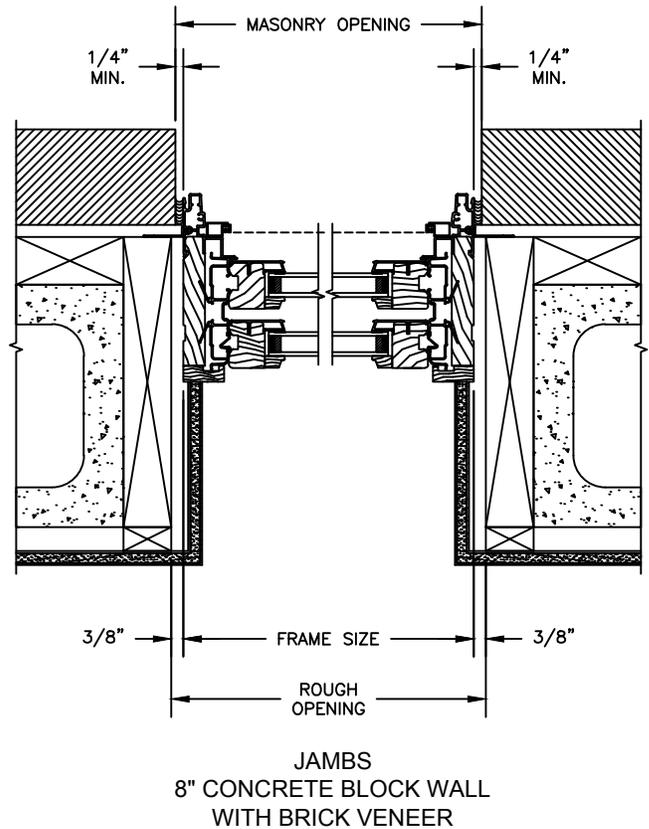
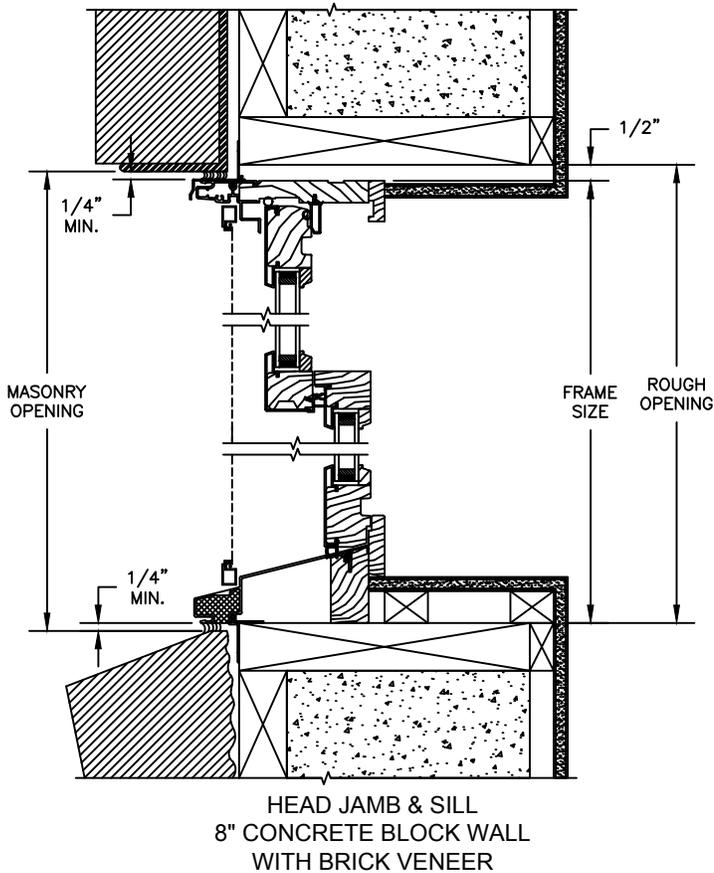
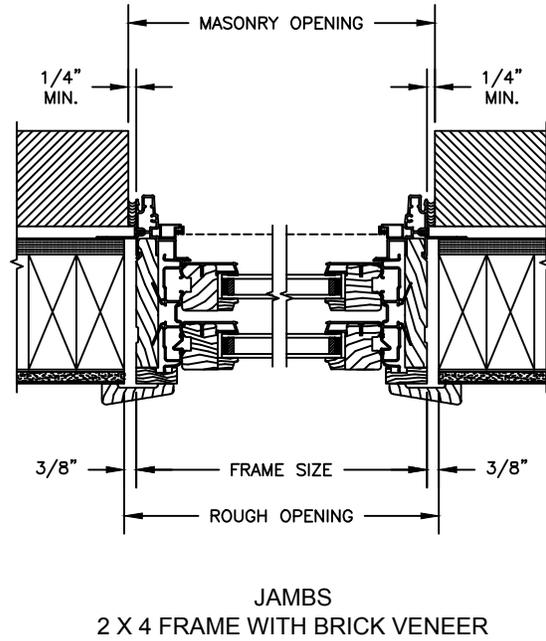
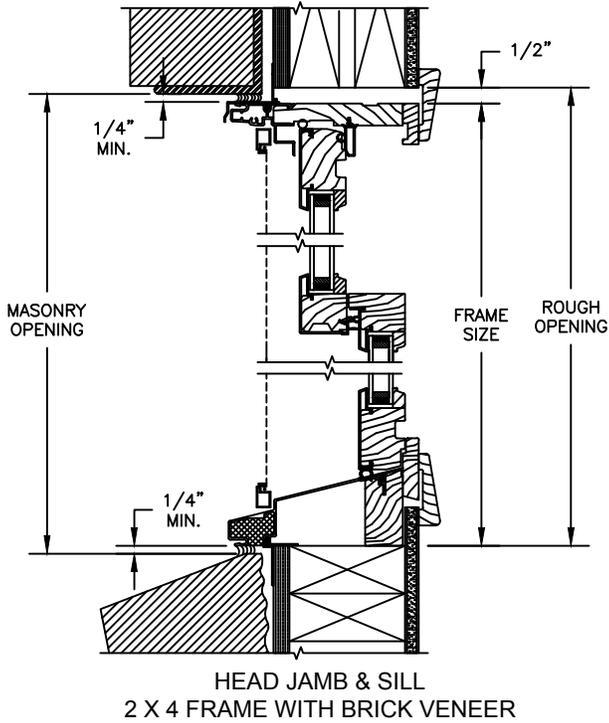
JAMBS  
 2 X 4 FRAME WITH STUCCO

NOTE:  
 THE ABOVE WALL SECTIONS REPRESENT TYPICAL WALL CONDITIONS, THESE DETAILS ARE NOT INTENDED AS INSTALLATIONS INSTRUCTIONS. PLEASE REFER TO THE INSTALLATION INSTRUCTIONS PROVIDED WITH THE PURCHASED UNITS.

# Pinnacle Series

## CLAD DOUBLE HUNG

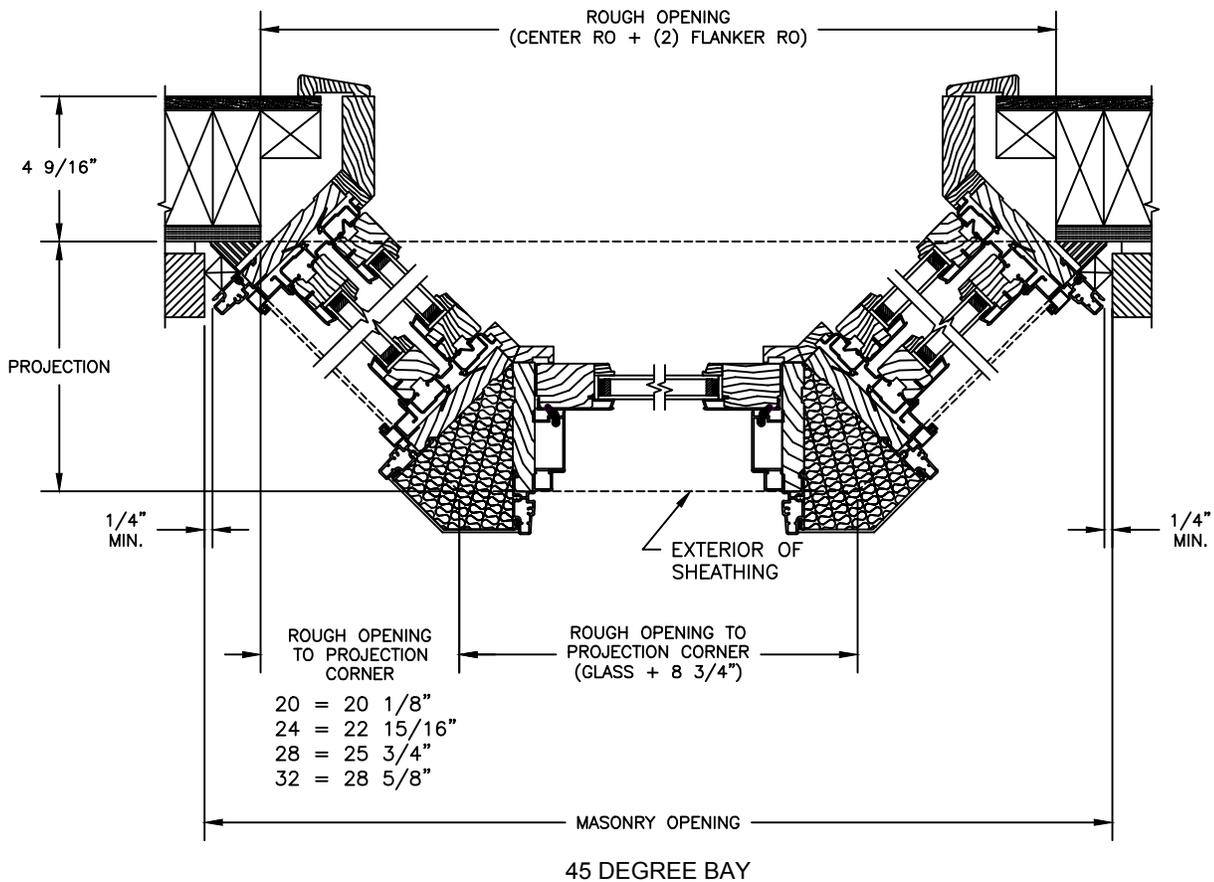
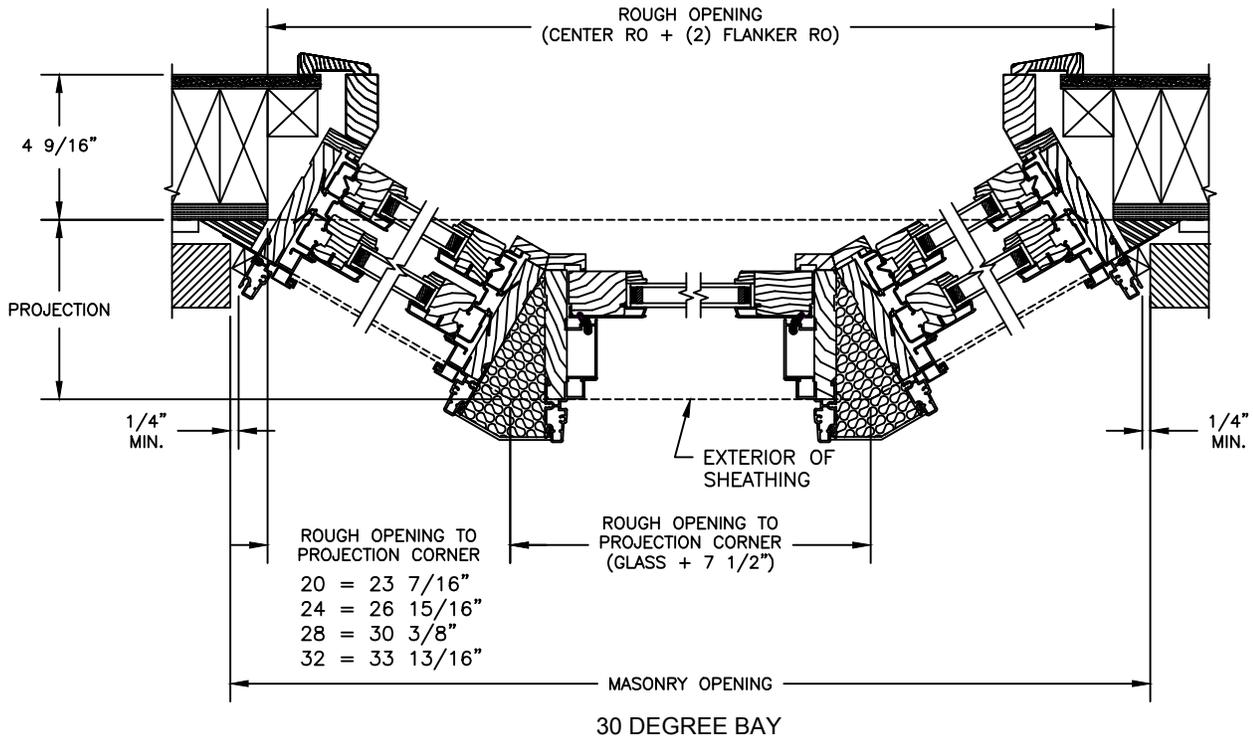
SECTION DETAILS : CONSTRUCTION  
 SCALE: 2" = 1'-0"



# Pinnacle Series

## CLAD DOUBLE HUNG

SECTION DETAILS : 30/45 DEGREES BAY  
 SCALE: 2" = 1'-0"





# HardiePlank® Lap Siding

EFFECTIVE SEPTEMBER 2019

**IMPORTANT: FAILURE TO FOLLOW JAMES HARDIE WRITTEN INSTALLATION INSTRUCTIONS AND COMPLY WITH APPLICABLE BUILDING CODES MAY VIOLATE LOCAL LAWS, AFFECT BUILDING ENVELOPE PERFORMANCE AND MAY AFFECT WARRANTY COVERAGE. FAILURE TO COMPLY WITH ALL HEALTH AND SAFETY REGULATIONS WHEN CUTTING AND INSTALLING THIS PRODUCT MAY RESULT IN PERSONAL INJURY. BEFORE INSTALLATION, CONFIRM YOU ARE USING THE CORRECT HARDIEZONE® PRODUCT INSTRUCTIONS BY VISITING HARDIEZONE.COM OR CALL 1-866-942-7343 (866-9-HARDIE)**

## STORAGE & HANDLING:

Store flat and keep dry and covered prior to installation. Installing siding wet or saturated may result in shrinkage at butt joints. Carry planks on edge. Protect edges and corners from breakage. James Hardie is not responsible for damage caused by improper storage and handling of the product.



## CUTTING INSTRUCTIONS

### OUTDOORS

- Position cutting station so that airflow blows dust away from the user and others near the cutting area.
- Cut using one of the following methods:
  - Best:** Circular saw equipped with a HardieBlade® saw blade and attached vacuum dust collection system. Shears (manual, pneumatic or electric) may also be used, not recommended for products thicker than 7/16 in.
  - Better:** Circular saw equipped with a dust collection feature (e.g. Roan® saw) and a HardieBlade saw blade.
  - Good:** Circular saw equipped with a HardieBlade saw blade.

### INDOORS

DO NOT grind or cut with a power saw indoors. Cut using shears (manual, pneumatic or electric) or the score and snap method, not recommended for products thicker than 7/16 in.

- DO NOT dry sweep dust; use wet dust suppression or vacuum to collect dust.
- For maximum dust reduction, James Hardie recommends using the "Best" cutting practices. Always follow the equipment manufacturer's instructions for proper operation.
- For best performance when cutting with a circular saw, James Hardie recommends using HardieBlade® saw blades.
- Go to [jameshardiepros.com](http://jameshardiepros.com) for additional cutting and dust control recommendations.

**IMPORTANT:** The Occupational Safety and Health Administration (OSHA) regulates workplace exposure to silica dust. For construction sites, OSHA has deemed that cutting fiber cement with a circular saw having a blade diameter less than 8 inches and connected to a commercially available dust collection system per manufacturer's instructions results in exposures below the OSHA Permissible Exposure Limit (PEL) for respirable crystalline silica, without the need for additional respiratory protection.

If you are unsure about how to comply with OSHA silica dust regulations, consult a qualified industrial hygienist or safety professional, or contact your James Hardie technical sales representative for assistance. James Hardie makes no representation or warranty that adopting a particular cutting practice will assure your compliance with OSHA rules or other applicable laws and safety requirements.

**IMPORTANT:** To prevent damage to the drip edge, extra care should be taken when removing planks from the pallet, while handling, and when installing with a lap gauge. Please see additional handling requirements on page 4.

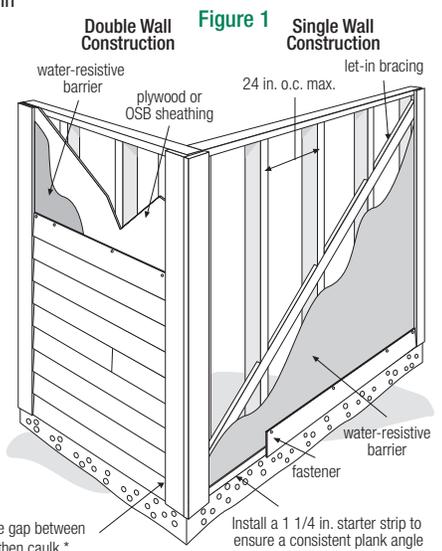
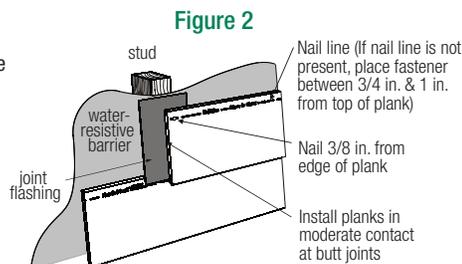
## GENERAL REQUIREMENTS:

- HardiePlank® lap siding can be installed over braced wood or steel studs, 20 gauge (33 mils) minimum to 16 gauge (54 mils) maximum, spaced a maximum of 24 in o.c. or directly to minimum 7/16 in thick OSB sheathing. See General Fastening Requirements. Irregularities in framing and sheathing can mirror through the finished application. Correct irregularities before installing siding.
- Information on installing James Hardie products over non-nailable substrates (ex: gypsum, foam, etc.) can be located in JH Tech Bulletin 19 at [www.jameshardie.com](http://www.jameshardie.com)
- A water-resistive barrier is required in accordance with local building code requirements. The water-resistive barrier must be appropriately installed with penetration and junction flashing in accordance with local building code requirements. James Hardie will assume no responsibility for water infiltration. James Hardie does manufacture HardieWrap® Weather Barrier, a non-woven non-perforated housewrap<sup>1</sup>, which complies with building code requirements.
- Adjacent finished grade must slope away from the building in accordance with local building codes - typically a minimum of 6 in. in the first 10 ft..
- Do not use HardiePlank lap siding in Fascia or Trim applications.
- Do not install James Hardie products, such that they may remain in contact with standing water.
- HardiePlank lap siding may be installed on flat vertical wall applications only.
- For larger projects, including commercial and multi-family projects, where the span of the wall is significant in length, the designer and/or architect should take into consideration the coefficient of thermal expansion and moisture movement of the product in their design. These values can be found in the Technical Bulletin "Expansion Characteristics of James Hardie® Siding Products" at [www.jameshardie.com](http://www.jameshardie.com).
- James Hardie Building Products provides installation /wind load information for buildings with a maximum mean roof height of 85 feet. For information on installations above 60 feet, please contact JH technical support.

## INSTALLATION: JOINT TREATMENT

One or more of the following joint treatment options are required by code (as referenced 2009 IRC R703.10.2)

- Joint Flashing (James Hardie recommended)
- Caulking\* (Caulking is not recommended for ColorPlus for aesthetic reasons as the Caulking and ColorPlus will weather differently. For the same reason, do not caulk nail heads on ColorPlus products.)
- "H" jointer cover



Note: Field painting over caulking may produce a sheen difference when compared to the field painted PrimePlus. \*Refer to Caulking section in these instructions.  
<sup>1</sup>For additional information on HardieWrap® Weather Barrier, consult James Hardie at 1-866-4Hardie or [www.hardiewrap.com](http://www.hardiewrap.com)



SELECT CEDARMILL® | SMOOTH | BEADED CEDARMILL® | BEADED SMOOTH



Visit [jameshardiepros.com](http://jameshardiepros.com) for the most recent version.

HS11117 P1/4 09/19



## CLEARANCE AND FLASHING REQUIREMENTS

Figure 3  
Roof to Wall

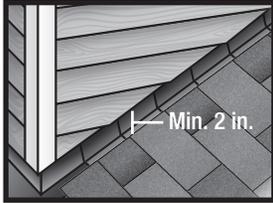


Figure 4  
Horizontal Flashing

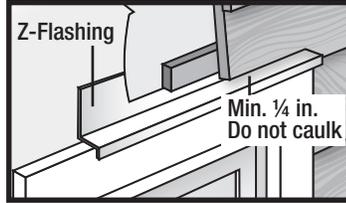


Figure 5  
Kickout Flashing

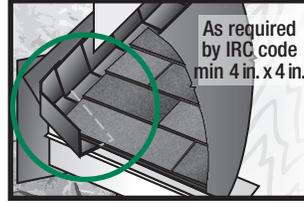


Figure 6  
Slabs, Path, Steps to Siding

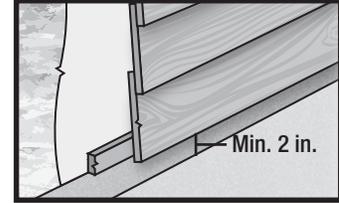


Figure 7  
Deck to Wall

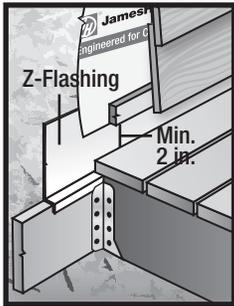


Figure 8  
Ground to Siding

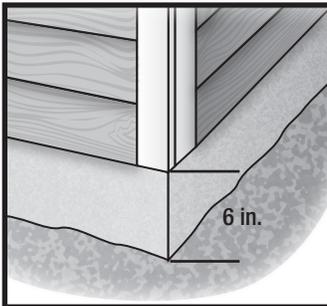


Figure 9  
Gutter to Siding



Figure 10  
Sheltered Areas

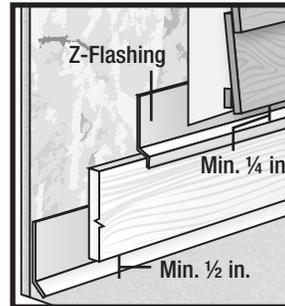


Figure 11  
Mortar/Masonry

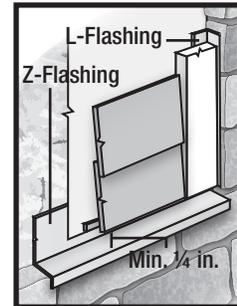


Figure 12  
Drip Edge

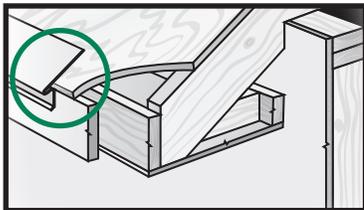


Figure 13  
Block Penetration

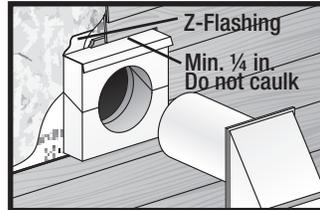
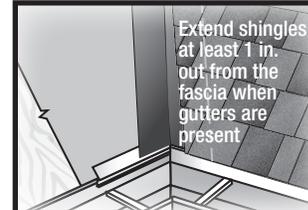


Figure 14  
Valley/Shingle Extension



## FASTENER REQUIREMENTS\*

Refer to the applicable ESR report online to determine which fastener meets your wind load design criteria.

Blind Nailing is the preferred method of installation for HardiePlank® lap siding products. Face nailing should only be used where required by code for high wind areas and must not be used in conjunction with Blind nailing (Please see JH Tech bulletin 17 for exemption when doing a repair).

### BLIND NAILING

#### Nails - Wood Framing

- Siding nail (0.09 in. shank x 0.221 in. HD x 2 in. long)
- 11ga. roofing nail (0.121 in. shank x 0.371 in. HD x 1.25 in. long)

#### Screws - Steel Framing

- Ribbed Wafer-head or equivalent (No. 8 x 1 1/4 in. long x 0.375 in. HD) Screws must penetrate 3 threads into metal framing.

#### Nails - Steel Framing

- ET & F Panelfast® nails or equivalent (0.10 in. shank x 0.313 in. HD x 1-1/2 in. long) Nails must penetrate minimum 1/4 in. into metal framing.

#### OSB minimum 7/16 in.

- Siding nail (0.09 in. shank x 0.215 in. HD x 1-1/2 in. long)
- Ribbed Wafer-head or equivalent (No. 8 x 1 5/8 in. long x 0.375 in. HD).

### FACE NAILING

#### Nails - Wood Framing

- 6d (0.113 in. shank x 0.267 in. HD x 2 in. long)
- Siding nail (0.09" shank x 0.221" HD x 2" long)

#### Screws - Steel Framing

- Ribbed Bugle-head or equivalent (No. 8-18 x 1-5/8 in. long x 0.323 in. HD) Screws must penetrate 3 threads into metal framing.

#### Nails - Steel Framing

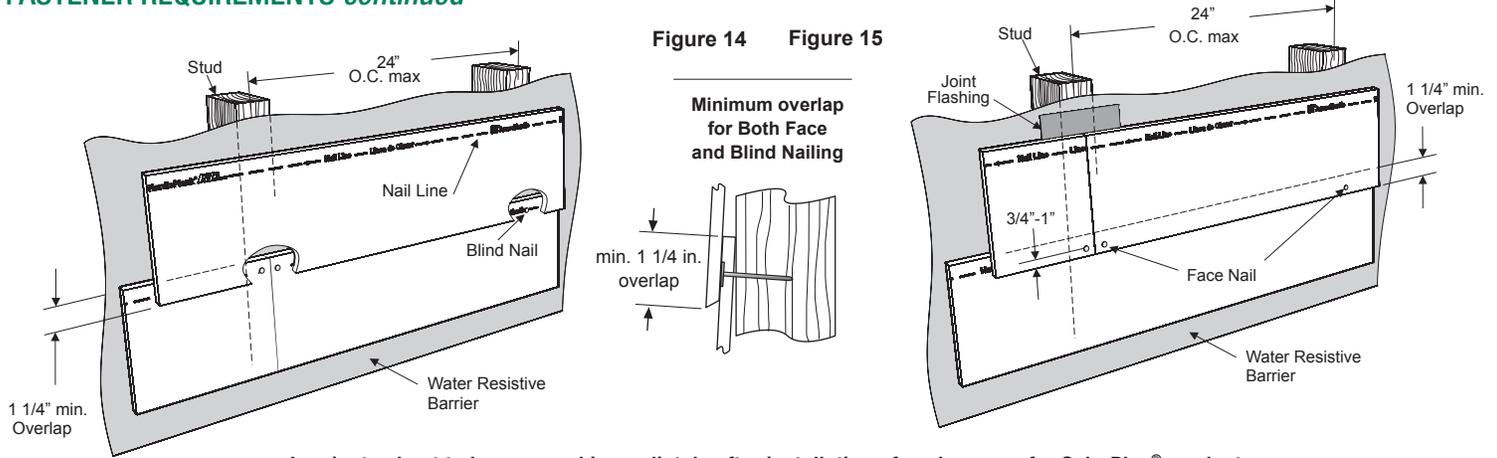
- ET & F pin or equivalent (0.10 in. shank x 0.25 in. HD x 1-1/2 in. long) Nails must penetrate minimum 1/4 in. into metal framing.

#### OSB minimum 7/16 in.

- Siding nail (0.09 in. shank x 0.221 in. HD x 1-1/2 in. long)

\*Also see General Fastening Requirements; and when considering alternative fastening options refer to James Hardie's Technical Bulletin USTB 5 - Fastening Tips for HardiePlank Lap Siding.

## FASTENER REQUIREMENTS *continued*



Laminate sheet to be removed immediately after installation of each course for ColorPlus® products.

Pin-backed corners may be done for aesthetic purposes only. Finish nails are recommended for pin-backs. Headed siding nails are allowed. Place pin-backs no closer than 1 in. from plank ends and 3/4 in. from plank edge into min. 3/8 in. wood structural panel. Pin-backs are not a substitute for blind or face nailing.

## GENERAL FASTENING REQUIREMENTS

Fasteners must be corrosion resistant, galvanized, or stainless steel. Electro-galvanized are acceptable but may exhibit premature corrosion. James Hardie recommends the use of quality, hot-dipped galvanized nails. James Hardie is not responsible for the corrosion resistance of fasteners. Stainless steel fasteners are recommended when installing James Hardie® products near the ocean, large bodies of water, or in very humid climates.

Manufacturers of ACQ and CA preservative-treated wood recommend spacer materials or other physical barriers to prevent direct contact of ACQ or CA preservative-treated wood and aluminum products. Fasteners used to attach HardieTrim Tabs to preservative-treated wood shall be of hot dipped zinc-coated galvanized steel or stainless steel and in accordance to 2009 IRC R317.3 or 2009 IBC 2304.9.5

- Consult applicable product evaluation or listing for correct fasteners type and placement to achieve specified design wind loads.
- NOTE: Published wind loads may not be applicable to all areas where Local Building Codes have specific jurisdiction. Consult James Hardie Technical Services if you are unsure of applicable compliance documentation.
- Drive fasteners perpendicular to siding and framing.
- Fastener heads should fit snug against siding (no air space).
- NOTE: Whenever a structural member is present, HardiePlank should be fastened with even spacing to the structural member. The tables allowing direct to OSB or plywood should only be used when traditional framing is not available.

## CUT EDGE TREATMENT

Caulk, paint or prime all field cut edges. James Hardie touch-up kits are required to touch-up ColorPlus products.

## CAULKING

For best results use an Elastomeric Joint Sealant complying with ASTM C920 Grade NS, Class 25 or higher or a Latex Joint Sealant complying with ASTM C834. Caulking/Sealant must be applied in accordance with the caulking/sealant manufacturer's written instructions.

**Note: some caulking manufacturers do not allow "tooling".**

## PAINTING

DO NOT use stain, oil/alkyd base paint, or powder coating on James Hardie® products. Factory-primed James Hardie products must be painted within 180 days of installation. 100% acrylic topcoats are recommended. Do not paint when wet. For application rates refer to paint manufacturers specifications. Back-rolling is recommended if the siding is sprayed.

## PNEUMATIC FASTENING

James Hardie products can be hand nailed or fastened with a pneumatic tool. Pneumatic fastening is highly recommended. Set air pressure so that the fastener is driven snug with the surface of the siding. A flush mount attachment on the pneumatic tool is recommended. This will help control the depth the nail is driven. If setting the nail depth proves difficult, choose a setting that under drives the nail. (Drive under driven nails snug with a smooth faced hammer - Does not apply for installation to steel framing).

<p><b>SNUG</b>      <b>FLUSH</b></p>		<p><b>UNDER DRIVE</b>      <b>SLANT</b></p>		<p><b>ALUMINUM FASTENERS</b></p>
<p><b>DO NOT</b></p>		<p><b>DO NOT</b></p>		<p><b>DO NOT USE</b></p>
<p><b>IF, THEN</b></p>		<p><b>IF, THEN ADDITIONAL NAIL</b></p>		<p><b>CLIPPED HEAD NAILS</b></p>
<p><b>WOOD FRAME</b></p> <p>HAMMER FLUSH</p>	<p><b>STEEL FRAME</b></p> <p>REMOVE &amp; REPLACE</p>	<p><b>FACE NAIL</b></p> <p>COUNTERSINK &amp; FILL</p>		<p><b>STAPLES</b></p>



## COLORPLUS® TECHNOLOGY CAULKING, TOUCH-UP & LAMINATE

- Care should be taken when handling and cutting James Hardie ColorPlus® products. During installation use a wet soft cloth or soft brush to gently wipe off any residue or construction dust left on the product, then rinse with a garden hose.
- Touch up nicks, scrapes and nail heads using the ColorPlus® Technology touch-up applicator. Touch-up should be used sparingly. If large areas require touch-up, replace the damaged area with new HardiePlank® lap siding with ColorPlus® Technology.
- Laminate sheet must be removed immediately after installation of each course.
- Terminate non-factory cut edges into trim where possible, and caulk. Color matched caulks are available from your ColorPlus® product dealer.
- Treat all other non-factory cut edges using the ColorPlus Technology edge coaters, available from your ColorPlus product dealer.

**Note:** James Hardie does not warrant the usage of third party touch-up or paints used as touch-up on James Hardie ColorPlus products.

Problems with appearance or performance arising from use of third party touch-up paints or paints used as touch-up that are not James Hardie touch-up will not be covered under the James Hardie ColorPlus Limited Finish Warranty.

## COVERAGE CHART/ESTIMATING GUIDE

Number of 12 ft. planks, does not include waste

COVERAGE AREA LESS OPENINGS	HARDIEPLANK® LAP SIDING WIDTH									
	(exposure)	5 1/4 4	6 1/4 5	7 1/4 6	7 1/2 6 1/4	8 6 3/4	8 1/4 7	9 1/4 8	9 1/2 8 1/4	12 10 3/4
SQ (1 SQ = 100 sq.ft.)										
1		25	20	17	16	15	14	13	13	9
2		50	40	33	32	30	29	25	25	19
3		75	60	50	48	44	43	38	38	28
4		100	80	67	64	59	57	50	50	37
5		125	100	83	80	74	71	63	63	47
6		150	120	100	96	89	86	75	75	56
7		175	140	117	112	104	100	88	88	65
8		200	160	133	128	119	114	100	100	74
9		225	180	150	144	133	129	113	113	84
10		250	200	167	160	148	143	125	125	93
11		275	220	183	176	163	157	138	138	102
12		300	240	200	192	178	171	150	150	112
13		325	260	217	208	193	186	163	163	121
14		350	280	233	224	207	200	175	175	130
15		375	300	250	240	222	214	188	188	140
16		400	320	267	256	237	229	200	200	149
17		425	340	283	272	252	243	213	213	158
18		450	360	300	288	267	257	225	225	167
19		475	380	317	304	281	271	238	238	177
20		500	400	333	320	296	286	250	250	186

## PAINTING JAMES HARDIE® SIDING AND TRIM PRODUCTS WITH COLORPLUS® TECHNOLOGY

When repainting ColorPlus products, James Hardie recommends the following regarding surface preparation and topcoat application:

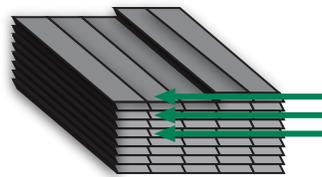
- Ensure the surface is clean, dry, and free of any dust, dirt, or mildew
- Repriming is normally not necessary
- 100% acrylic topcoats are recommended
- DO NOT use stain, oil/alkyd base paint, or powder coating on James Hardie® Products.
- Apply finish coat in accordance with paint manufacturers written instructions regarding coverage, application methods, and application temperature
- DO NOT caulk nail heads when using ColorPlus products, refer to the ColorPlus touch-up section

This coverage chart is meant as a guide. Actual usage is subject to variables such as building design. James Hardie does not assume responsibility for over or under ordering of product.

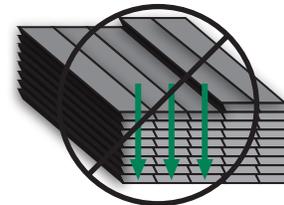
## ADDITIONAL HANDLING REQUIREMENTS

**IMPORTANT:** To prevent damage to the drip edge, extra care should be taken when removing planks from the pallet, while handling, and when installing with a lap gauge. Planks are interlocked together on the pallet, therefore they should be removed from the pallet horizontally (side to side) to allow planks to unlock themselves from one another.

Pull from across the stack



Do not go down the stack



HS11117 P4/4 09/19

**SILICA WARNING**

**DANGER:** May cause cancer if dust from product is inhaled. Causes damage to lungs and respiratory system through prolonged or repeated inhalation of dust from product. Refer to the current product Safety Data Sheet before use. The hazard associated with fiber cement arises from crystalline silica present in the dust generated by activities such as cutting, machining, drilling, routing, sawing, crushing, or otherwise abrading fiber cement, and when cleaning up, disposing of or moving the dust. When doing any of these activities in a manner that generates dust you must (1) comply with the OSHA standard for silica dust and/or other applicable law, (2) follow James Hardie cutting instructions to reduce or limit the release of dust; (3) warn others in the area to avoid breathing the dust; (4) when using mechanical saw or high speed cutting tools, work outdoors and use dust collection equipment; and (5) if no other dust controls are available, wear a dust mask or respirator that meets NIOSH requirements (e.g. N-95 dust mask). During clean-up, use a well maintained vacuum and filter appropriate for capturing fine (respirable) dust or use wet clean-up methods - never dry sweep.

**WARNING:** This product can expose you to chemicals including respirable crystalline silica, which is known to the State of California to cause cancer. For more information go to [P65Warnings.ca.gov](http://P65Warnings.ca.gov).

**RECOGNITION:** In accordance with ICC-ES Evaluation Report ESR-2290, HardiePlank® lap siding is recognized as a suitable alternate to that specified in the 2006, 2009, 2012 & 2015 International Residential Code for One and Two-Family Dwellings, and the 2006, 2009, 2012 & 2015 International Building Code. HardiePlank lap siding is also recognized for application in the following: City of Los Angeles Research Report No. 24862, State of Florida Product Approval FL#13192, Miami-Dade County Florida NOA No. 17-0406.06, U.S. Dept. of HUD Materials Release 1263f, Texas Department of Insurance Product Evaluation EC-23, City of New York MEA 223-93-M, and California DSA PA-019. These documents should also be consulted for additional information concerning the suitability of this product for specific applications.

# Pinnacle Series

## CLAD DOUBLE HUNG

## SPECIFICATIONS

### PART 1 - GENERAL

#### 1.01 SECTION INCLUDES

- A. Factory assembled aluminum clad wood double hung windows [including fixed units], glass and glazing, operable hardware, weatherstripping, insect screen, and [grilles].
- B. Anchorages, attachments, and accessories.

#### 1.02 RELATED SECTIONS

- A. Section 01340 - Shop Drawings, Product Data, and Samples.
- B. Section 01610 - Delivery, Storage, and Handling.
- C. Section 01710 - Final Cleaning.
- D. Section 07200 - Batt and Blanket Insulation.
- E. Section 07920 - Sealants and Caulking.
- F. Section 08800 - Glass and Glazing.

#### 1.03 REFERENCES

- A. AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM):
  - 1. ASTM E-283 - Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors.
  - 2. ASTM E-547 - Water Penetration of Exterior Windows, Curtain Walls, and Doors by Cyclic Static Air Pressure Difference.
  - 3. ASTM E-330 - Structural Performance of Exterior Windows, Curtain Walls, and Doors under Uniform Static Air Pressure Difference.
- B. AMERICAN ARCHITECTURAL MANUFACTURERS ASSOCIATION (AAMA):
  - 1. AAMA/WDMA/CSA 101/I.S.2/A440-11 North American Fenestration Standard/Specification for Windows, Doors and Skylights.
- C. WINDOW & DOOR MANUFACTURERS ASSOCIATION (WDMA):
  - 1. WDMA I.S-4 – 07 Industry Standard for Water-Repellent Preservative Treatment for Millwork
- D. AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)
- E. NATIONAL FENESTRATION RATING COUNCIL (NFRC)

#### 1.04 PERFORMANCE CRITERIA

- A. Patio Door units shall meet requirements in accordance with AAMA/WDMA/CSA 101/I.S.2/A440-11.
- B. Air leakage shall not exceed 0.30 cfm per sq.ft. of sash when tested in accordance with ASTM E-283 at 1.57 psf.
- C. No water penetration shall be allowed when tested in accordance with ASTM E-547.
- D. Window units shall withstand positive and negative wind loads without damage. The units shall be tested in accordance with ASTM E-330.

#### 1.04 PERFORMANCE CRITERIA

- A. Double Hung units shall meet requirements in accordance with AAMA/WDMA/CSA 101/I.S.-2/A440-11.
- B. Air leakage shall not exceed 0.30 cfm per sq.ft. of sash when tested in accordance with ASTM E-283 at 1.57 psf.
- C. No water penetration shall be allowed when tested in accordance with ASTM E-547.
- D. Window units shall withstand positive and negative wind loads without damage. The units shall be tested in accordance with ASTM E-330.

#### 1.05 SUBMITTALS

- A. Shop drawings shall be submitted in accordance with Section 01340.
- B. Product data in the form of general catalogs, test lab reports, product performance, and warranty information shall be submitted in accordance with Section 01340.
- C. Samples showing glazing, quality of construction, and finish shall be submitted in accordance with Section 01340.

#### 1.06 DELIVERY, STORAGE, AND HANDLING

- A. In compliance with Section 01610, window units shall be delivered undamaged, with protective packaging and fitted with sash shipping blocks. Complete installation and finishing instructions shall be included.
- B. Store units in a clean, dry place off the ground in an upright position.

# Pinnacle Series

## CLAD DOUBLE HUNG

## SPECIFICATIONS

### PART 2 – PRODUCTS

#### 2.01 MANUFACTURER

- A. Pinnacle Series Aluminum Clad Wood double hung window units [including fixed units] as manufactured by Windsor Windows & Doors.

#### 2.02 MATERIALS

- A. Frame: Shall be select softwoods treated with water repellent preservative in accordance with NWWDA I.S.-4-81, assembled with hardware installed. Exposed exterior portion shall be extruded aluminum cladding. Frame cladding sealed at corners with injected silicone and aluminum corner keys. Jamb thickness shall be 1 1/16". Jamb width shall be 4-9/16". Jamb extenders are available to match other finished wall thicknesses. Aluminum sill is thermally broken and end sealed. Vinyl hinged nailing fin and drip cap are utilized for installation. Rigid aluminum nail fin and color matched drip cap option is available. Natural Alder and Fir interior options are available. DP Upgrade units receive a 1/2" taller inside sill stop.
  - Concealed Jambliner Option: Exterior exposure shall have finished matched clad covers. Interior exposure shall have wood covers species matched to the sash/frame. The balance system shall be a block and tackle inverted balance mounted to the side jamb. A jamb jack will be standard, concealed with a removable transition dust pad. A kerf mount weatherstrip is applied to each side jamb, the entire length, providing a seal between the sash and both side jambs.
  - Standard Jambliner Option: A flexible hinge jambliner, available in white and beige. The balance system shall be a block and tackle balance mounted to the jambliner shell. The jambliner provides a tight seal to the sash. A dust pad is applied to the jambliner shell, providing a seal at the check rail assembly.
- B. Sash: Wood interior shall be select pine treated with water repellent preservative. Corners shall be coped and stapled. Exterior surfaces shall consist of aluminum extrusion with lapped corners held together by color-matched injected-molded corner keys. Foam tape is applied to the back side of glass stop. Natural Alder and Fir interior option is available. DP upgrade units shall have no finger pulls. No finger pull option is available for standard units.
- C. Finish: All aluminum exterior surfaces shall be covered with a factory applied, polyester powder-coat paint in 22 standard and 20 feature colors. Anodized colors are also available.
- D. Glazing: Shall be 3/4" double pane LoE 366 insulating glass as standard, glazed with double-faced tape plus a full perimeter bead of silicone, and interior wood stops. A wide array of other glass options is offered including clear, tinted, tempered, and obscure. Cardinal's Preserve™ option is available on all LoE 366, glass. It is a removable, factory-applied protective film adhered to both interior and exterior surfaces of the glass.
- E. Weatherstripping: Shall be closed-cell foam encased in TPE skin installed at the head and sill. A PVC-Alcryn hollow bulb applied to the inside check rail. Concealed jambliner shall have a wood parting stop with a kerf mount bulb providing a seal to the top rail. Flex back jambliner shall have a vinyl kerf mount parting stop with a hollow bulb providing a seal to the top rail.
- F. Hardware: Spring-loaded die-cast tilt latches allow both sash to be tilted in with ease. Balance system consists of a block and tackle with a locking shoe that allows for easy cleaning or removal. Flange mounted cam action locks have contemporary curved handle and concealed fasteners. One lock is used on glass widths 26" and below. Two locks are used on glass widths of 28" on up. Locks, keepers, and tilt latches all have a baked on champagne enamel finish. White, black, bronze, brass, oil-rubbed bronze, and satin nickel hardware options available.
- G. Screens: Shall be a fiberglass BetterVue™ screen set in painted aluminum frame. UltraVue™ Screen option is available. Screens are full height of opening. Screens available in 22 standard and 20 feature colors. The screen is intended to allow air and light in and keep insects out. The screen is not intended to stop children, adults or animals from falling out an open window.

# Pinnacle Series

## CLAD DOUBLE HUNG

## SPECIFICATIONS

- H. Grilles: (Extra when specified) Colonial grilles shall be select pine with moulded edges. Stick grilles are fastened to sash with press pins, while perimeter grilles use a hidden clip system. Stick grilles and perimeter grilles are available in 7/8" or 1-1/4" widths. White, cinnamon, bronze, tan, ivory, hunter green, or black; aluminum inner grilles (in air space) are also available in 13/16" flat, 3/4" profiled, or 1" profiled. Two-toned inner grilles (3/4" profiled only) are available with a white interior, and a bronze, green, tan, ivory, or black exterior. Windsorlite (WDL) simulates true divided lite, but is created by adhesively fixing the wood interior and aluminum exterior to the surfaces of the insulated glass. WDL is available in 7/8" and 1-1/4" standard, 5/8" putty, and 7/8" putty with standard interior. All are available with or without inner bar between the glass. Exterior bars are available in 22 standard and 20 feature colors.

### PART 3 - EXECUTION

#### 3.01 EXAMINATION

- A. Verify that there is no visible damage to the unit before installation.

#### 3.02 INSTALLATION

- A. Verify the rough opening is of the recommended size and that it is plumb, level, and square.  
B. Install the window unit in accordance with the manufacturer's recommendations. On operating units, remove shipping blocks after unit is fully installed.  
C. Install sealant, backing material, and insulation around opening perimeter in accordance with Section 07900 and Section 07920.

#### 3.03 ADJUSTMENT AND CLEANING

- A. Operate unit and verify that all hardware operates freely. Make any adjustments necessary.  
B. Cover the window unit to avoid damage due to spray paint, plaster, and other construction operations.  
C. Remove all visible labels and instructions.  
D. Final cleaning of glass in accordance of Section 01710.



Discover a whole new  
**SIDE OF HOME.**

 **JamesHardie™**  
Siding | Trim

Build confidently  
**BY DESIGN.**





Installed on over 8 million homes\* from coast to coast, James Hardie® fiber cement siding products are designed to resist the most extreme conditions while delivering long term beauty and lower maintenance. Enjoy the warm, natural look of wood with unprecedented peace of mind. It's easy to see what makes James Hardie the market leader.

### UNIQUE FORMULATION

We use the highest quality raw materials and proprietary additives for enhanced strength and moisture protection.

### FINISHING TECHNOLOGY

Baked-on color delivers a beautiful finish that resists fading and makes a lasting impression.

### COMPLETE EXTERIOR

Offers homeowners an unrivaled collection of design options with exceptional warranties through a single, trusted manufacturer.

\*Estimate based on total James Hardie siding sales through 2016 and average housing unit size.

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# HardieZone® System

Only James Hardie® fiber cement products are Engineered for Climate®. In the northern U.S. and Canada, HZ5® products resist shrinking, swelling and cracking even after years of wet or freezing conditions. HZ10® products help protect homes from hot, humid conditions, blistering sun and more.

With James Hardie® siding and trim, homeowners have an exterior that's tougher than the elements and easy on the eyes.

## NO MATTER WHAT NATURE BRINGS





HardieTrim®  
Boards  
Timber Bark

HardiePlank®  
Lap Siding  
Khaki Brown

# TOUGHER THAN THE ELEMENTS



Stands up to storms and harsh weather



Water resistant to protect against swelling, warping and cracking



Won't be eaten by animals or insects



Fire resistant



Helps reduce time and money spent on maintenance

Resist the elements  
**WITH IRRESISTIBLE BEAUTY.**

# Unique Formulation

## HZ5® Substrate

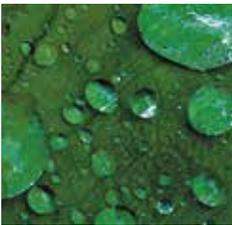
Not all fiber cement is the same. The James Hardie HZ5 product formulation contains the highest quality raw materials. Proprietary additives, combined with an innovative manufacturing process and product design, create a substrate specifically engineered to reduce moisture and resist damage from wet or freezing conditions.

### PROPRIETARY ENHANCEMENTS CREATE DURABLE JAMES HARDIE® SIDING



#### Perfect balance of strength and workability

Our balance of high-quality Portland cement, sand and cellulose fiber delivers the best combination of strength and workability.



#### Enhanced moisture resistance for unmatched durability

Patented and proprietary additives are chemically bonded within the HZ5® substrate matrix to provide durable moisture resistance.



#### Increased dimensional stability

Our siding is engineered at the microscopic level to create a fiber cement composite with superior dimensional stability that helps protect against shrinking and splitting.



MADE IN THE  
**USA**



Integrity is ingrained  
**IN EVERYTHING WE DO.**

HardiePlank®  
Lap Siding  
Evening Blue



**HZ5**®

**The advanced design of HZ5® lap siding improves drainage from top to bottom.**

In addition to the enhanced moisture resistance of our product formulation, HardiePlank® HZ5® lap siding features a modified profile with a sloped top and bullnose drip edge for improved drainage over the entire outer face of the board.



**Sloped Top**

Positive slope at top drains moisture to outer face of lap



**Profiled Drip Edge**

Bottom bullnose drip edge allows moisture to drain away from lap

# Finishing Technology

## Primer

A quality primer is the first step to ensuring that the paint color you select beautifully expresses a home's true character now – and for years to come. Our distinctive primer is climate-tested and engineered to enhance the performance of paint on James Hardie® fiber cement siding products. It helps to provide consistent, long-lasting paint adhesion, even in the most demanding conditions.

## ColorPlus® Technology

Our advanced ColorPlus® Technology finishes deliver the ultimate in aesthetics and performance. Our products aren't simply painted at the factory. Our proprietary coatings are baked onto the board, creating a vibrant, consistent finish that performs better, lasts longer and looks brighter on your homes.



### Exceptional finish adhesion

Our proprietary coating is engineered for exceptional adhesion to our substrate and applied to the surface, edges and features for durable performance.



### Superior color retention

Finish is cured onto boards for a stronger bond, which allows for exceptional resistance to cracking, peeling and chipping.



### Superior UV resistance

ColorPlus® Technology finishes retain vibrancy longer when compared to vinyl siding and typical field paints on other siding products.



**ColorPlus®**  
Technology



HardieShingle®  
Straight Edge  
Cobble Stone

HardieTrim®  
Boards  
Arctic White

HardiePlank®  
Lap Siding  
Cobble Stone

# Lasting beauty **BEGINS WITH THE FINISH.**

**Our finishes help eliminate stress and reduce costly weather delays** when it's too cold or damp to paint for extended periods. Now there's no reason to question whether or not sub-optimal painting conditions will negatively affect your paint job. In fact, there's no longer any need to paint on-site during installation.

ColorPlus® Technology finishes are fully cured in a controlled environment and arrive on your job site ready for year-round installation.





ColorPlus®  
Technology  
Pearl Gray

ColorPlus®  
Technology  
Iron Gray

For complete confidence wrap your  
**ENTIRE EXTERIOR WITH JAMES HARDIE.**



# James Hardie Complete Exterior™

Top to bottom, our exterior product line is defined by excellent performance, aesthetics and design options.

Provide protection from the elements, showcase a homeowner's individual style and install peace of mind with exceptional warranties through a single, trusted manufacturer.



HardieShingle®  
Siding



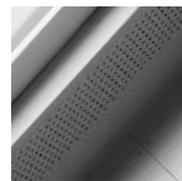
HardiePanel® Vertical  
Siding & HardieTrim®  
Batten Boards



HardiePlank®  
Lap Siding



HardieTrim®  
Boards



HardieSoffit®  
Panels

# HardiePlank®

Sleek and strong, HardiePlank® lap siding is not just our best-selling product – it's the most popular brand of siding in America.

With a full spectrum of colors and textures, homeowners can enjoy protection from the elements and the versatility to make their dream home a reality. From Victorians to Colonials, HardiePlank lap siding sets the standard in exterior cladding.

HardieTrim®  
Boards  
Arctic White

HardiePlank®  
Lap Siding  
Select Cedarmill®  
Khaki Brown

A classic look for  
**THE HOME OF THEIR DREAMS.**

# HardiePlank®

Thickness 5/16 in  
Length 12 ft planks

## SELECT CEDARMILL® & SMOOTH

	Width	5.25 in	6.25 in	7.25 in	8.25 in	9.25 in*
Exposure		4 in	5 in	6 in	7 in	8 in
Prime Pcs/Pallet		360	308	252	230	190
ColorPlus Pcs/Pallet		324	280	252	210	—
Pcs/Sq		25.0	20.0	16.7	14.3	12.5

## SELECT CEDARMILL®



	Width	5.25 in	6.25 in	7.25 in	8.25 in	9.25 in*
STATEMENT COLLECTION™					✓	
DREAM COLLECTION™		✓	✓	✓	✓	
PRIME		✓	✓	✓	✓	✓

## SMOOTH



	Width	5.25 in	6.25 in	7.25 in	8.25 in	9.25 in*
STATEMENT COLLECTION™					✓	
DREAM COLLECTION™		✓	✓	✓	✓	
PRIME		✓	✓	✓	✓	

## BEADED CEDARMILL®

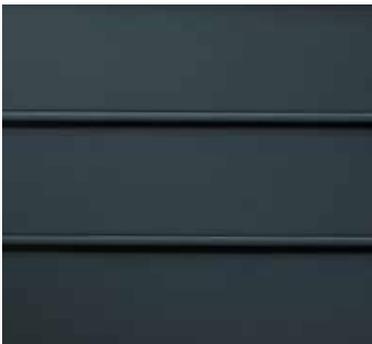


## BEADED CEDARMILL® & BEADED SMOOTH

Width	8.25 in
Exposure	7 in
Prime Pcs/Pallet	240
ColorPlus Pcs/Pallet	210
Pcs/Sq	14.3

STATEMENT COLLECTION™	—
DREAM COLLECTION™	✓
PRIME	—

## BEADED SMOOTH



\*9.25 in widths do not feature the drip edge

# HardiePanel®

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HardiePanel® vertical siding delivers style and substance. When combined with HardieTrim® boards, it achieves the rustic board-and-batten look that defines cottage charm. The covered seams contribute to a well-insulated home.

Its crisp, clean lines make HardiePanel vertical siding a smart choice for strong, contemporary designs.



HardiePanel®  
Vertical Siding  
Evening Blue

HardieTrim®  
Batten Boards  
Evening Blue

True to your needs of  
**PERFORMANCE AND BEAUTY.**

# HardiePanel®

Thickness 5/16 in

## SELECT CEDARMILL®, SMOOTH, STUCCO & SIERRA 8

	Size 4 ft x 8 ft	4 ft x 10 ft
Prime Pcs/Pallet	50	50
ColorPlus Pcs/Pallet	50	50
Pcs/Sq	3.2	2.5

### SELECT CEDARMILL®



	Size 4 ft x 8 ft	4 ft x 10 ft
STATEMENT COLLECTION™		✓
DREAM COLLECTION™	✓	✓
PRIME	✓	✓

### SMOOTH



	Size 4 ft x 8 ft	4 ft x 10 ft
STATEMENT COLLECTION™		✓
DREAM COLLECTION™	✓	✓
PRIME	✓	✓

### STUCCO



	Size 4 ft x 8 ft	4 ft x 10 ft
STATEMENT COLLECTION™		
DREAM COLLECTION™	✓	✓
PRIME	✓	✓

### SIERRA 8



	Size 4 ft x 8 ft	4 ft x 10 ft
STATEMENT COLLECTION™		
DREAM COLLECTION™		
PRIME	✓	✓

# HardieShingle®

Restore the look of a grand Cape Cod or add distinction to a handsome bungalow. HardieShingle® siding embodies the enchanting look of cedar shingles with lower maintenance.

Better than the real thing, HardieShingle siding resists rotting, curling, warping and splitting.



HardieTrim®  
Boards  
Arctic White

HardieShingle®  
Straight  
Edge Panel  
Pearl Gray

Achieve the handcrafted  
**LOOK OF CEDAR.**

# HardieShingle®

Thickness 1/4 in



## STAGGERED EDGE PANEL

Length	48 in
Height	15.25 in
Exposure	6 in
ColorPlus Pcs/Pallet	100
Sq/Pallet	2
Pcs/Sq	50.0

STATEMENT COLLECTION™ \_\_\_\_\_

DREAM COLLECTION™  \_\_\_\_\_

PRIME \_\_\_\_\_



## STRAIGHT EDGE PANEL

Length	48 in	48 in
Height	14 in	15.25 in
Exposure	5 in	7 in
ColorPlus Pcs/Pallet	120	86
Sq/Pallet	2	2
Pcs/Sq	60.0	43.0

STATEMENT COLLECTION™ \_\_\_\_\_

DREAM COLLECTION™  \_\_\_\_\_

PRIME \_\_\_\_\_



## HALF ROUNDS

Length	48 in
Height	15.25 in
Exposure	7 in
Prime Pcs/Pallet	86
Sq/Pallet	2
Pcs/Sq	43.0

STATEMENT COLLECTION™ \_\_\_\_\_

DREAM COLLECTION™ \_\_\_\_\_

PRIME  \_\_\_\_\_

# HardieTrim®

Form meets function at every angle with HardieTrim® boards. With an authentic look, HardieTrim boards provide design flexibility for columns, friezes, doors, windows and other accent areas.

Better than wood, it will complement your long-lasting, lower maintenance James Hardie® siding – adding punctuation to your design statement.

HardieTrim®  
Boards  
Khaki Brown

HardiePlank®  
Lap Siding  
Navajo Beige

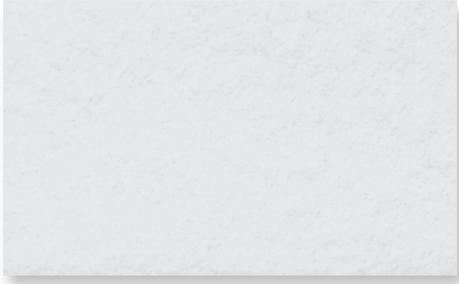
The performance you require.

**THE DISTINCTIVENESS YOU DESIRE.**

# HardieTrim®

Length 12 ft boards

## NT3® BOARDS SMOOTH



### 4/4 SMOOTH

Thickness	.75 in				
Width	3.5 in	5.5 in	7.25 in	9.25 in	11.25 in
ColorPlus Pcs/Pallet	312	208	156	104	104

STATEMENT COLLECTION™	✓	✓	✓		✓
DREAM COLLECTION™	✓	✓	✓	✓	✓
PRIME					

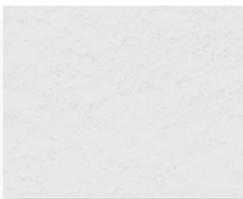
### 5/4 SMOOTH

Thickness	1 in					
Width	3.5 in	4.5 in	5.5 in	7.25 in	9.25 in	11.25 in
ColorPlus Pcs/Pallet	240	200	160	120	80	80

STATEMENT COLLECTION™	✓	✓	✓	✓		✓
DREAM COLLECTION™	✓	✓	✓	✓	✓	✓
PRIME						

## BATTEN BOARDS

### SMOOTH



### RUSTIC GRAIN®



### SMOOTH & RUSTIC GRAIN®

Thickness	.75 in
Width	2.5 in
Prime Pcs/Pallet	190
ColorPlus Pcs/Pallet	437

STATEMENT COLLECTION™	✓
DREAM COLLECTION™	✓
PRIME	✓

# HardieSoffit®

---

A home is only as strong as its weakest point. HardieSoffit® panels reinforce your work by protecting the vulnerable gap between eaves and exterior walls.

Available in vented, non-vented and a range of pre-cut sizes, these panels complete your design and help protect it from moisture and pests.

## VENTILATION BENEFITS

Using vented soffit improves ventilation in the attic space and reduces the chance of water vapor condensation that can lead to issues such as mold and mildew growth, stained ceilings and damage to the framing of the house.

In warm climates, HardieSoffit panels allow hot, humid air to escape, which not only helps prevent condensation in the attic, but can also help reduce air conditioning costs.

In cool climates, HardieSoffit panels help prevent condensation from forming on the interior side of the roof sheathing and reduce the chances of roof-damaging ice dams.



HardieSoffit®  
Panels  
Dream Collection™  
product

For complete confidence  
**EVERY DETAIL MATTERS.**

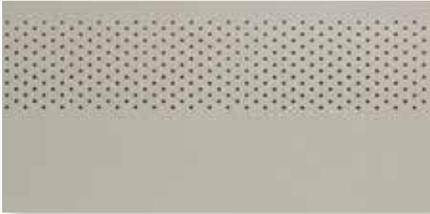
# HardieSoffit®

Thickness 1/4 in

## VENTED SMOOTH & SELECT CEDARMILL®

Length	12 ft	12 ft	8 ft
Width	12 in	16 in	24 in
Prime Pcs/Pallet	200	150	100
ColorPlus Pcs/Pallet	216	156	108

### VENTED SMOOTH



Size	12 ft x 12 in	12 ft x 16 in	8 ft x 24 in
------	---------------	---------------	--------------

#### STATEMENT COLLECTION™

#### DREAM COLLECTION™

#### PRIME

✓	✓	✓
✓	✓	✓

### VENTED SELECT CEDARMILL®



Size	12 ft x 12 in	12 ft x 16 in	8 ft x 24 in
------	---------------	---------------	--------------

#### STATEMENT COLLECTION™

#### DREAM COLLECTION™

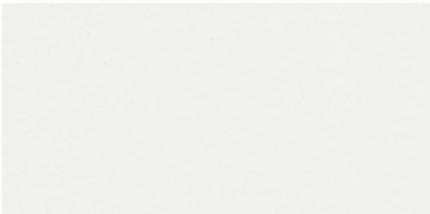
#### PRIME

✓	✓	✓

## NON-VENTED SMOOTH & SELECT CEDARMILL®

Length	12 ft	12 ft	8 ft	8 ft
Width	12 in	16 in	24 in	48 in
Prime Pcs/Pallet	200	150	100	50
ColorPlus Pcs/Pallet	216	156	108	—

### NON-VENTED SMOOTH



Size	12 ft x 12 in	12 ft x 16 in	8 ft x 24 in	8 ft x 48 in
------	---------------	---------------	--------------	--------------

#### STATEMENT COLLECTION™

#### DREAM COLLECTION™

#### PRIME

✓	✓	✓	
✓	✓	✓	✓

### NON-VENTED SELECT CEDARMILL®



Size	12 ft x 12 in	12 ft x 16 in	8 ft x 24 in	8 ft x 48 in
------	---------------	---------------	--------------	--------------

#### STATEMENT COLLECTION™

#### DREAM COLLECTION™

#### PRIME

✓	✓	✓

### BEADED PORCH PANEL



### BEADED PORCH PANEL

Thickness	1/4 in
Length	8 ft
Width	48 in
ColorPlus Pcs/Pallet	50

#### STATEMENT COLLECTION™

#### DREAM COLLECTION™

#### PRIME

—
✓
—

# STATEMENT COLLECTION™

Make your next home stand out with our Statement Collection™ products. Carefully curated by our design experts specifically for your market, the collection brings together the most popular James Hardie ColorPlus® siding and trim styles, textures, and colors. This stunning selection is locally stocked and designed for simplicity - making it easier than ever to get a beautiful, long-lasting home exterior.

## ColorPlus® Technology

### Plank, Panel, Shingle and Batten Color Offering

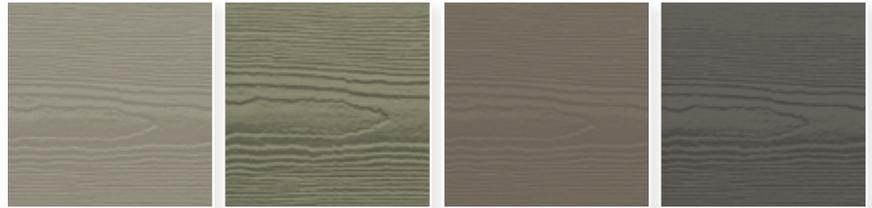


ARCTIC WHITE

COBBLE STONE

NAVAJO BEIGE

KHAKI BROWN

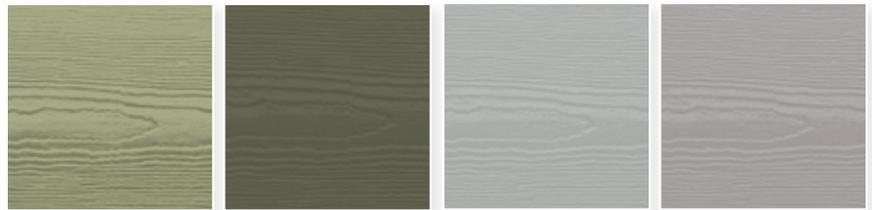


MONTEREY TAUPE

WOODSTOCK BROWN

TIMBER BARK

RICH ESPRESSO



HEATHERED MOSS

MOUNTAIN SAGE

LIGHT MIST

PEARL GRAY



GRAY SLATE

BOOTHBAY BLUE

EVENING BLUE

DEEP OCEAN



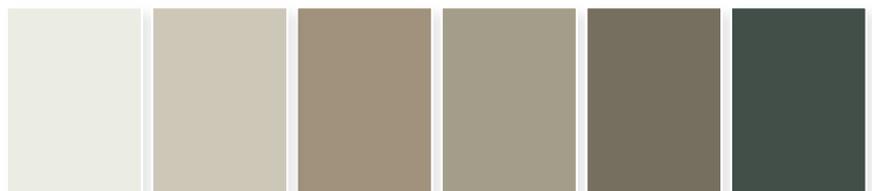
AGED PEWTER

NIGHT GRAY

IRON GRAY

COUNTRYLANE RED

### Trim Color Offering



ARCTIC  
WHITE

COBBLE  
STONE

KHAKI  
BROWN

MONTEREY  
TAUPE

TIMBER  
BARK

IRON  
GRAY

Colors shown are as accurate as printing methods will permit. Please see actual product sample for true color.

## HardiePlank®

Thickness 5/16 in  
Length 12 ft planks



### SELECT CEDARMILL® & SMOOTH

Width 8.25 in  
Exposure 7 in  
ColorPlus 210  
Pcs./Pallet

## HardiePanel®

Thickness 5/16 in



### SELECT CEDARMILL® & SMOOTH

Size 4 ft x 10 ft  
ColorPlus 50  
Pcs./Pallet

## HardieShingle®

Thickness 1/4 in  
Length 48 in



### STRAIGHT EDGE PANEL

Height 15.25 in  
Exposure 7 in  
ColorPlus 86  
Pcs./Pallet

## HardieTrim®

### 4/4 SMOOTH



Thickness .75 in  
Length 12 ft boards  
Width 3.5 in 5.5 in 7.25 in 11.25 in  
ColorPlus 312 208 156 104  
Pcs./Pallet

### 5/4 SMOOTH



Thickness 1 in  
Length 12 ft boards  
Width 3.5 in 4.5 in 5.5 in 7.25 in 11.25 in  
ColorPlus 240 200 160 120 80  
Pcs./Pallet

## BATTEN BOARDS

### 4/4 SMOOTH



Thickness .75 in  
Length 12 ft boards  
Width 2.5 in  
ColorPlus 190  
Pcs./Pallet

### 4/4 RUSTIC GRAIN®



Thickness .75 in  
Length 12 ft boards  
Width 2.5 in  
ColorPlus 190  
Pcs./Pallet



Selecting a color? Request a product sample at [jameshardiepros.com/samples](http://jameshardiepros.com/samples)

# Get Inspired

## CRISP & CLEAN

### LIGHT COLORS

Whites and soft pastels are pure, clean, new and bright. Combine with other hues to add interest, personality and contrast. Works well on houses with Colonial Inspiration. A pastel A-frame cottage can look sweet and charming.



Arctic White



Navajo Beige



Cobble Stone



## SUBTLE & SOPHISTICATED

### NEUTRAL COLORS

Neutral rules the suburbs. These shades are safe, but also sophisticated. When accessorized with black or a darker color, a neutral can look fashionably stylish. Play with textures and use different tones for trim.



Iron Gray



Evening Blue



Night Gray



## A BOLD CHOICE

### DARK COLORS

Dark grays, blues and greens can feel both intellectual and modern. When used with white trim, they create drama. Works well in old neighborhoods, or urban environments, where there is a mix of old and new.

## DREAM COLLECTION™

Looking to further express your sense of style? Look to our Dream Collection™ products.

- Featuring a color palette of over 700 ColorPlus® Technology finishes
- Made to order in a wide array of James Hardie® siding and trim styles
- Matches elevated design flexibility with the uncompromising performance of our fiber cement products

To see what's possible and order Dream Collection product samples visit [jameshardiepros.com/dream](http://jameshardiepros.com/dream)



Khaki Brown



Monterey Taupe



Timber Bark



# HardieWrap®

No exterior cladding can prevent 100% of water intrusion. Your homes should have an additional line of defense. HardieWrap® weather barrier provides a superior balance of water resistance and breathability, keeping the area within the wall drier. This helps prevent moisture accumulation that may lead to mold and mildew growth.

## INSTALLATION ADVANTAGES

- Thicker, more durable material for easier, quicker installation
- Superior tear resistance helps prevent water infiltration
- Can be installed with staples in place of cap nails for cost savings
- Provides a higher level of performance, no matter what type of cladding you specify



We've got performance covered  
**FROM THE INSIDE OUT.**



HardieWrap®  
Weather Barrier

HardieWrap®  
Pro-Flashing

HardieWrap®  
Flex Flashing

HardieWrap®  
Seam Tape

### WEATHER BARRIER

Thickness	11 mil			
Length	100 ft	100 ft	150 ft	150 ft
Width	3 ft	9 ft	9 ft	10 ft

### PRO-FLASHING

Thickness	20 mil		
Length	75 ft	75 ft	75 ft
Width	4 in	6 in	9 in

### FLEX FLASHING

Thickness	60 mil	
Length	75 ft	75 ft
Width	6 in	9 in

### SEAM TAPE

Thickness	3.2 mil
Length	164 ft
Width	1-7/8 in



To learn more about our weather barrier's advantages, visit [jameshardiepros.com](http://jameshardiepros.com)

# Install Done Right

## Installation Accessories

### HARDIEBLADE® SAW BLADES

Manufactured by Diablo, the HardieBlade® saw blade is designed specifically to cut fiber cement products, and is the only saw blade James Hardie recommends. The blade creates clean, precise cuts while helping to reduce the amount of airborne dust produced. Specially designed to outlast other fiber cement saw blades by 3X, outlasting carbide blades by 60X.



### PACTOOL® GECKO GAUGE

The PacTool® Gecko Gauge is designed to improve the installation experience, allowing one person to hang HardiePlank® lap siding during installation. Studies suggest the Gecko Gauge can improve the speed of solo installation by 30%.



## Finishing Touches

### ColorPlus® Technology Accessories

#### TOUCH-UP KITS

Specially formulated to match ColorPlus Technology finishes, our touch-up kits offer resistance to aging, color change and chalking. Estimated one kit per 4000 sq ft of siding or 1600 sq ft of trim.



#### COLOR MATCHED CAULK

OSI® QUAD® MAX sealant offers a high performance sealant solution to color match Statement Collection™ products.\* About 18-20 linear feet per tube. Refer to packaging for manufacturer's recommendations.

*\*For matching Dream Collection products, contact your local James Hardie representative.*

### Trim Accessories

#### FLAT TABS

Eliminate face nails and improve the aesthetic of trim applications around windows, doors and band boards.

#### CORNER TABS

Use corner tabs to eliminate face nail holes that would detract from the finished look of corner trim installations.



Find useful job-site tips in our industry-leading Best Practices Guide. For the latest installation instructions, visit [jameshardiepros.com](http://jameshardiepros.com)



HardiePlank®  
Select Cedarmill®  
Timber Bark

HardieTrim®  
Boards  
Arctic White

As unforgettable  
**AS IT IS UNCOMPROMISING.**



# See the James Hardie Difference



James Hardie invented fiber cement. Over 8 million homes\* later, we continue to set the standard in premium, high-performance exterior cladding. Our products deliver uncompromising durability and finish quality for a beautiful, lower maintenance exterior.

Our unrivaled investment in R&D and constant innovations in product design, manufacturing and distribution allow us to remain steps ahead of the competition. With the support of our employees, partners and exceptional warranties, we're committed to protecting your customers' homes while helping your business grow.

\*Estimate based on total James Hardie siding sales through 2016 and average housing unit size.

# Warranty – for peace of mind

Protect your homes with North America's #1 brand of siding backed by exceptional warranties. Unlike other brands, James Hardie doesn't prorate our siding and trim warranty coverage. We stand behind our siding 100% for 30 years and trim for 15 years.

ColorPlus® Technology finishes come with a 15-year limited warranty.

## James Hardie Non-Prorated Siding Substrate Warranty Coverage



# Endorsements – a reputation built on trust

For decades, our fiber cement products have been used to create better places to live. Each new home stands as a testament to our uncompromising quality. That proven track record has earned the loyalty of millions of homeowners and the endorsements of trusted authorities across the building industry.



Listed as top building materials & products by **Professional Builder 2018**



Chosen by builders as a **Brand Leader** in **Builder magazine** for over 20 years



**James Hardie® siding & trim products** have earned the **Good Housekeeping Seal**



HardieTrim®  
Boards  
Arctic White

HardieShingle®  
Straight Edge  
Pearl Gray

Make every home  
**STAND UP AND STAND OUT.**



HardiePanel®  
Vertical Siding  
Iron Gray

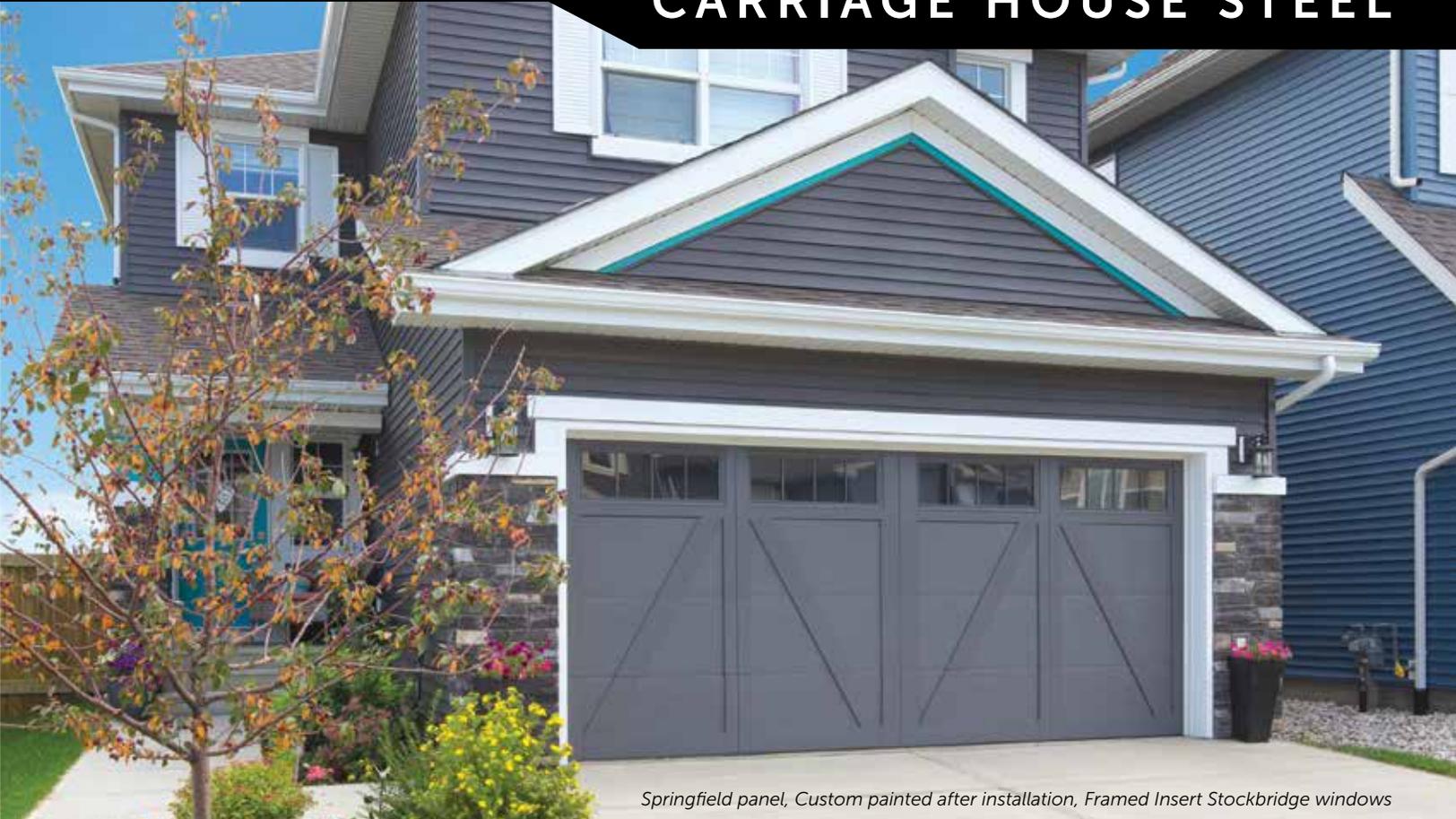
HardieTrim®  
Batten Boards  
Iron Gray

1.888.542.7343 | jameshardiepros.com

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 **JamesHardie™**  
Siding | Trim

**CARRIAGE HOUSE STEEL**



*Springfield panel, Custom painted after installation, Framed Insert Stockbridge windows*

**DOOR FEATURES**

**Joint Seals**

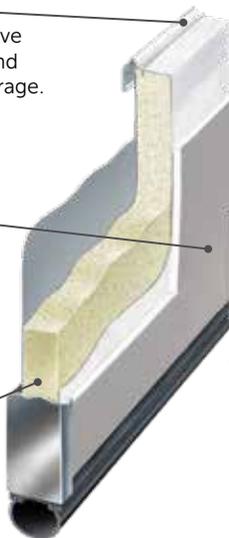
Snug fitting tongue-and-groove section joints reduces wind and weather from entering the garage.

**Durable DecaTrim™ II Overlays**

These overlay boards are specially treated to resist termites, weather and fungal decay.

**Foamed-in-place polyurethane insulation**

Provides an R-value\* of 12.12.



- **High Cycle Spring Option**

Choose a 25,000 cycle spring for more than twice the life of a standard torsion spring.

- **Heavy Duty Hinges**

Attractive 14-gauge heavy duty hinges provide maximum strength between sections, stability and smoother door operation.

- **Quiet Rollers**

Ball-bearing rollers with nylon wheels and solid steel shafts provide years of smooth, quiet and dependable service.

- **Windsafe®**



Available with optional hardware and reinforcement for high-wind regions. Please consult your dealer for details.

- **Limited Lifetime Warranty**

See full text of warranty for details.



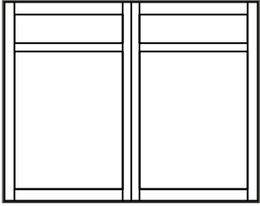
\*Wayne Dalton uses a calculated door section R-value for our insulated doors.

# 1 Choose Your Style

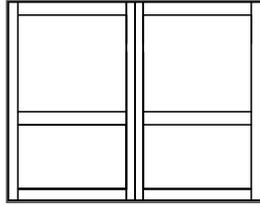
All door top sections are available in arched or square designs.

Double car door designs are equivalent to 2 single-car doors side by side.

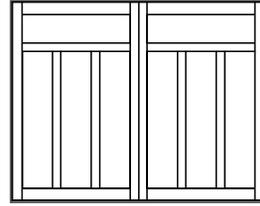
## Square Top



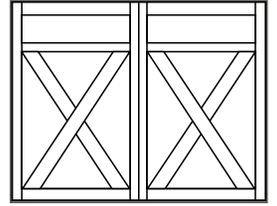
Arlington



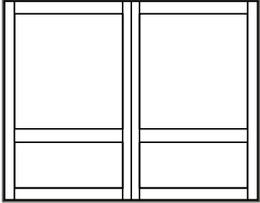
Ashburn



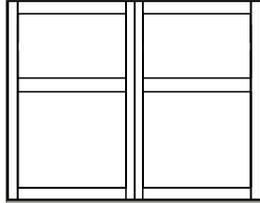
Brunswick



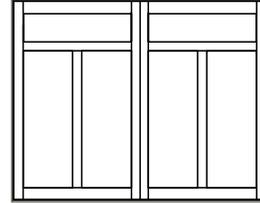
Lexington



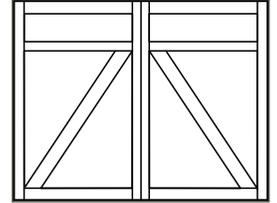
Richmond



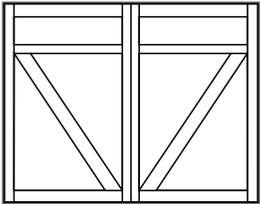
Savannah



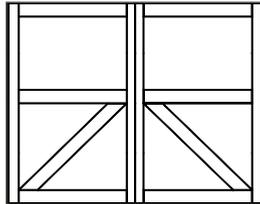
Somerset



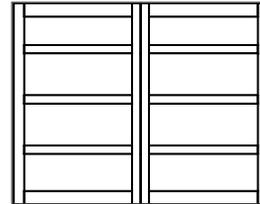
Springfield



Bellview

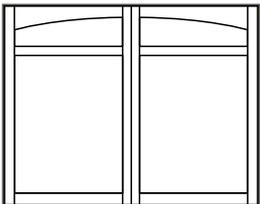


Kingston

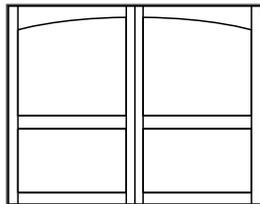


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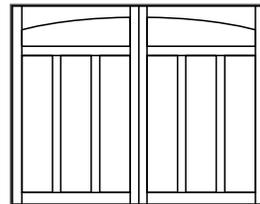
## Arched Top (windows not available with arched top overlay designs)



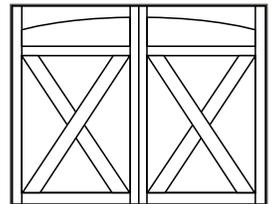
Arlington



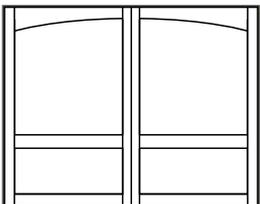
Ashburn



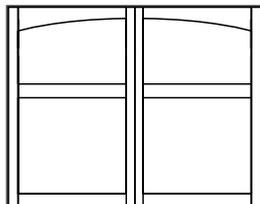
Brunswick



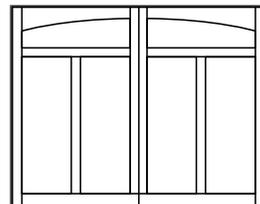
Lexington



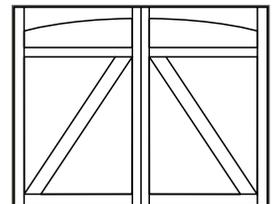
Richmond



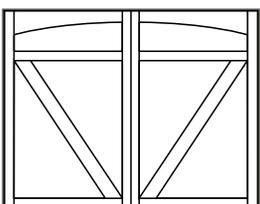
Savannah



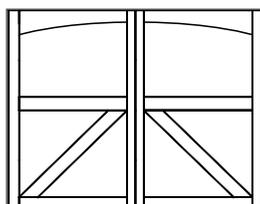
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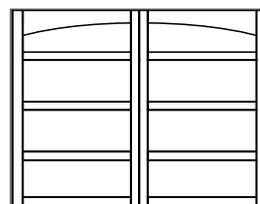
Springfield



Bellview



Kingston



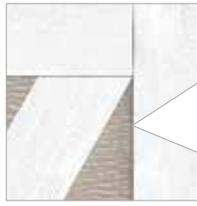
Westfield

## 2 Choose Your Overlay Texture

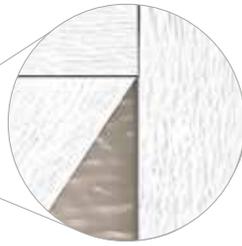
### DecaTrim™ II Overlay Texture Options



Smooth



Wood Grain



## 3 Choose Your Color

Actual colors may vary from brochure due to fluctuations in the printing process. Always request a color sample from your dealer for accurate color matching before ordering your door.

DecaTrim™ II overlays are provided in White only. For a two-toned look, choose from, Almond, Taupe, Terra Bronze, Brown or Black as shown below.



White/White



Almond/White



Taupe/White



Terra Bronze/White



Brown/White



Black/White

## 4 Choose Your Windows

Window patterns are shown for an 8' wide single-car door. Spacing of windows may change depending on door size. Not all windows are available in all door sizes.

### Routed windows

Doors built with the Routed windows use a clean top section design where the wood overlay is routed from a wood face panel.

Only available with smooth overlay trim.



Clear Long



Stockton Arch



Stockton



Stockbridge



Somerton



Wyndbridge

### Framed Insert windows

Doors with Framed Insert windows use a classic wood door design with the top section constructed from wood overlay boards.

Available for both smooth and wood grain overlays.



Clear Long



Stockton Arch



Stockton



Stockbridge



Somerton



Wyndbridge

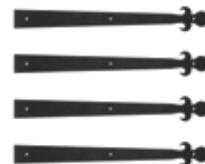
## 5 Choose Your Hardware



Arrow



Spear



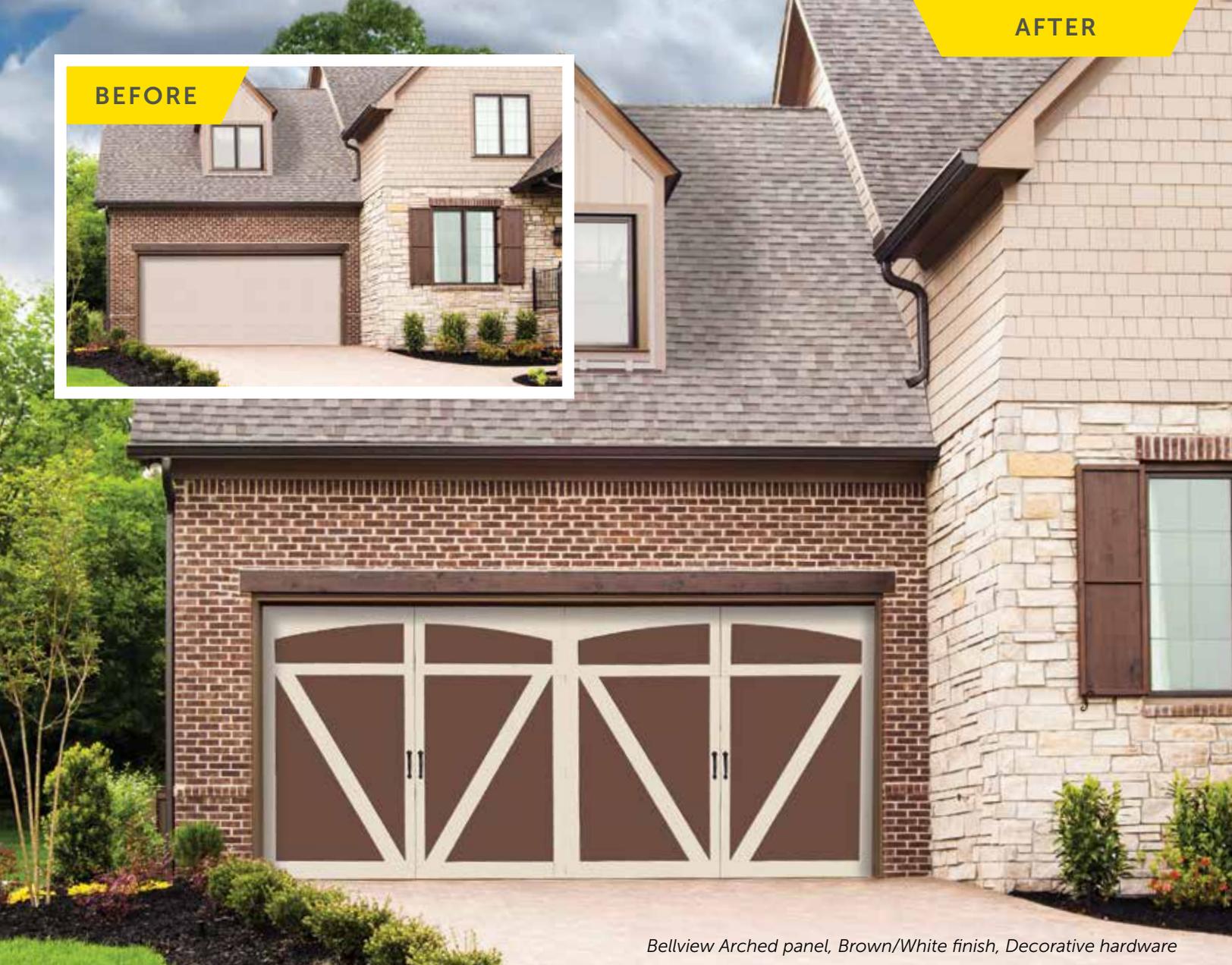
Fleur De Lis



See website for additional hardware options.

AFTER

BEFORE



*Bellview Arched panel, Brown/White finish, Decorative hardware*



# Garage Door Design Center

To see this door on your home, visit [wayne-dalton.com](http://wayne-dalton.com), or download our Garage Door Design Center app. Upload a photo of your home and experiment with panel designs, color options, window styles and decorative hardware designs. Instant curb appeal awaits you with just a click of your mouse.

**Wayne Dalton**  
GARAGE DOORS

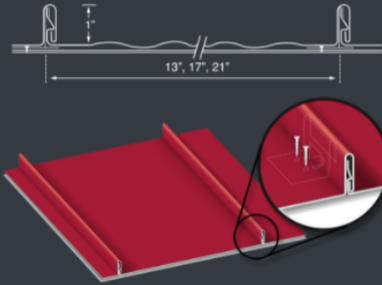
DISTRIBUTED BY:

2501 S. State Hwy. 121 Bus., Ste 200  
Lewisville, TX 75067

[wayne-dalton.com](http://wayne-dalton.com)



## EVERLAST METALS: ASL-100 METAL ROOFING PANEL PROFILE



The Everlast Metals ASL-100 Architectural Snap Seam Standing Seam roofing panel utilizes snap together panels for quick installation and no field seaming required.

Installed over solid decking, this design allows for expansion & contraction caused by natural elements, providing a virtually leak proof roof with exceptional UL580 wind uplift ratings.

The panel is available in a wide variety of materials and finishes. Substrates include G-90 Galvanized Steel, Galvalume® steel, and Aluminum. All painted products are Fluoropon® coated.

An optional thermally applied pre-assembly in-seam sealant is available. The minimum slope requirement is 3:12.

# ASL-100

## Specifications

Everlast Metals  
10 Enterprise Court  
Lebanon, PA 17042

Phone: (717) 270-6554  
Fax: (717) 270-6569  
[www.everlastmetals.com](http://www.everlastmetals.com)

## 7410 Preformed Metal Roofing

### **PART 1: GENERAL**

#### **1.01 SECTION INCLUDES**

- A. Preformed, prefinished metal roofing and flashings.
- B. Miscellaneous trim, flashing, closures, drip flashing, and accessories.
- C. Sealant
- D. Fastening devices

#### **1.02 RELATED SECTIONS**

- A. Section 05120: Structural Steel Framing
- B. Section 05500: Miscellaneous Metal Fabrication
- C. Section 06100: Rough Carpentry
- D. Section 07631: Flashing and Sheet Metal Gutters
- E. Section 07900: Sealants

#### **1.03 REFERENCES**

- A. American Iron & Steel Institute (AISI) Specification for the Design of Coldformed Steel Structural Members.
- B. ASTM A-525 Steel Sheet, Zinc-Coated (Galvanized)
- C. ASTM E-283-84
- D. ASTM E-331-86
- E. ASTM E-1592
- F. Spec Data Sheet – Galvalume Sheet Metal by Bethlehem Corp.
- G. Building Materials Directory – Underwriter’s Laboratories, Test Procedure 580.

#### **1.04 ASSEMBLY DESCRIPTION**

- A. The roofing assembly includes preformed sheet metal panels, related accessories, valleys, hips, ridges, eaves, corners, rakes, miscellaneous flashing and attaching devices.

#### **1.05 SUBMITTALS**

- A. Submit detailed drawings showing layout of panels, anchoring details, joint details, trim, flashing and accessories. Show details of weatherproofing, terminations and penetrations of metal work.
- B. Submit a sample of each type of roof panel, complete with factory finish.
- C. Submit results indicating compliance with minimum requirements of the following performance tests:
  - 1. Air Infiltration ASTM E 283-84
  - 2. Water Infiltration ASTM E 331-86
  - 3. Wind Uplift – UL90
- D. Submit calculations with registered engineer seal, verifying roof panel and attachment method resists wind pressures imposed on it pursuant to applicable building codes.

## **1.06 QUALITY ASSURANCE**

- A. Manufacturer: Company specializing in Architectural Sheet Metal Products with five (5) years minimum experience.
- B. No product substitutions shall be permitted without meeting specifications.
- C. Substitutions shall be submitted 10 days prior to Bid Date and acceptance put forth in an addendum.
- D. No substitutions shall be made after the Bid Date.

## **1.07 FABRICATION, STORAGE AND HANDLING**

- A. Upon fabrication of panels and other materials, installer shall examine the shipment for damage and completeness.
- B. Panels should be stored in a clean, dry place. One end should be elevated to allow moisture to run off.
- C. Panels with strippable film must not be stored in the open, exposed to the sun.
- D. Stack all materials to prevent damage and to allow for adequate ventilation.

## **1.08 WARRANTY**

- A. Paint finish shall have a thirty-five-year guarantee against cracking, peeling and fade (not to exceed 5 N.B.S. units).
- B. Galvalume material shall have a twenty-year guarantee against failure due to corrosion, rupture or perforation.
- C. Applicator shall furnish guarantee covering watertightness of the roofing system for the period of two (2) years from the date of substantial completion.

## **PART 2: PRODUCT**

### **2.01 ACCEPTABLE MANUFACTURERS**

- A. Everlast Metals – Lebanon, PA
- B. Substitutions shall fully comply with specified requirements.

### **2.02 SHEET MATERIALS**

- A. Prefinished Metal shall be Hot-Dipped Galvanized – ASTM A446-85 Grade C G90 Coating A525-86 24 Gauge core steel or prefinished Galvalume – ASTM 792-86, AZ-55.
- B. Unfinished Metal shall be Grade C Galvalume ASTM 792-86, AZ-55, “Satin Finish”.
- C. Finish shall be [full strength Fluoropon® PVDF coating], applied by the manufacturer on a continuous coil coating line, with a top side dry film thickness of 0.70 to 0.90 mil over 0.25 to 0.35 mil prime coat, to provide a total dry film thickness of 0.95 to 1.25 mil. Bottom side shall be coated with primer with a dry film thickness of 0.25 mil. Finish shall conform to all tests for adhesion, flexibility, and longevity as specified by Sherwin Williams Fluoropon®.
- D. Strippable film shall be applied to the top side of the painted coil to protect the finish during fabrication, shipping and field handling. This strippable film must be removed before installation.

### **2.03 ACCESSORY MATERIALS**

- A. Fasteners: [Galvanized Steel] [Stainless Steel] [Cadmium Plated Steel] with washers where required.
- B. Sealant: As specified in Section 07900 [ ] Type.

### **2.04 FABRICATION**

- A. All exposed adjacent flashing shall be of the same material and finish as the roof panels.
- B. Hem all exposed edges of flashing on underside, 1/2 inch.

### **2.05 Everlast Metals: ASL-100**

- A. Panels shall have [12"-20"] on-center seam spacing with a seam height of 1".
- B. Panels shall be site-formed or factory-formed in continuous lengths from eave to ridge.
- C. Clips shall be spaced as required to meet uplift loads (maximum of 36" on center).
- D. When required, Panel assembly shall bear Underwriter's Laboratories Label UL90, pursuant to Construction Number 587 and applicable Fire Ratings.
- E. Certification shall be submitted, based on independent testing laboratory, indicating no measurable water penetration or air leakage beyond allowable tolerances through the system when tested in accordance with ASTM E-331-86 and E-283-84.

## **PART 3: EXECUTION**

### **3.01 INSPECTION**

#### **A. Substrate:**

1. Examine plywood or metal deck to ensure proper attachment to framing.
2. Inspect roof deck to verify deck is clean and smooth, free of depressions, waves or projections, level to +/- 1/4" in 20', and properly sloped to [valleys] (or) [eaves].
3. Verify roof openings, curbs, pipes, sleeves, ducts or vents through roof are solidly set, cant strips and reglets in place, and nailing strips located.
4. Verify deck is dry and free of snow or ice. [Flutes in steel deck to be clean and dry] or [joints in wood deck to be solidly supported and nailed].

#### **B. Underlayment:**

1. Verify #30 unperforated asphalt saturated roofing felt underlayment has been installed over solid sheathing and fastened in place.
2. Felt to be installed horizontally, starting at eave to ridge with a 6" minimum overlap and 18" endlaps.
3. Nail heads to be totally flush with the substrate. Nails shall be galvanized Ring-Shank.

### **3.02 INSTALLATION**

- A. Comply with manufacturers standard instructions and conform to standards set forth in the manufacturers standard literature, in order to achieve a watertight installation.

- B. Install panels in such a manner that horizontal lines are true and level and vertical lines are plumb.
- C. Install starter and edge trim before installing roof panels.
- D. Remove protective strippable film prior to installation of roof panels.
- E. Attach panels with #10-12 x 1" pancake head screws, spaced in accordance with approved shop drawings.
- F. Install sealants for preformed roofing panels as approved on shop drawings.
- G. Do not allow panels or trim to come into contact with dissimilar materials.
- H. Do not allow traffic on completed roof. If required, provide cushioned walk boards.
- I. Protect installed roof panels and trim from damage caused by adjacent construction until completion of installation
- J. Remove and replace any panels or components which are damaged beyond successful repair.

### **3.03 CLEANING**

- A. Clean any grease, finger marks or stains from the panels per manufacturer's recommendations.
- B. Remove all scrap and construction debris from the site.